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LCD TV

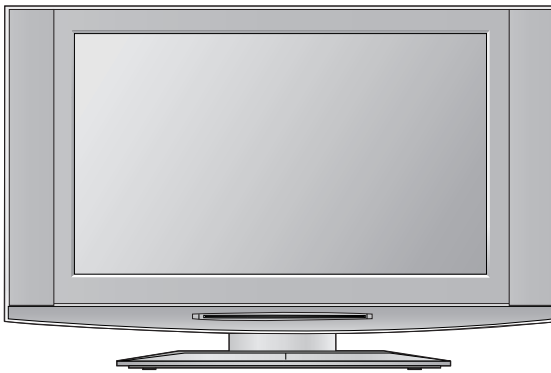
SERVICE MANUAL

CHASSIS : AL-04DA

MODEL : 32LX1D-UA

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the LCD PANEL.

For continued X-RAY RADIATION protection, the replacement panel must be the same type panel as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 \pm 1.5KV: 14-19 inch, 26 \pm 1.5KV: 19-21 inch,

29.0 \pm 1.5KV: 25-29 inch, 30.0 \pm 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M Ω and 5.2M Ω .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

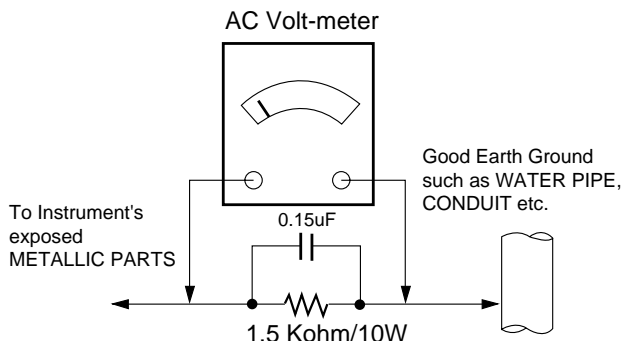
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to AL-04DA chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature: 20°C ± 5°C
- (2) Humidity : 65 ± 10%
- (3) Power: Standard input voltage (AC 110-240V, 50/60Hz)
*Standard Voltage of each product is marked by models
- (4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM
- (5) The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test and Inspection Method

3.1 Performance : LGE TV test method followed.

3.2 Demanded other specification.

EMC : FCC, ICES, IEC specification

SAFETY : UL, CSA, IEC specification

4. General Specification

No	Item	Specification	Remark
1.	Receiving System	ATSC/64 & 256 QAM/ NTSC-M	
2.	Available Channel	1) VHF : 02~13 2) UHF : 14~69 3) DTV : 02-69 4) CATV : 01~135 5) CADTV : 01~135	
3.	Input Voltage	1) AC 100 ~ 260V 50/60Hz	32LX1D: 120V, 60Hz
4.	Market	NORTH AMERICA	
5.	Screen Size	32 inch Wide	
6.	Aspect Ratio	16:9	
7.	Tuning System	FS	
8.	LCD Module	LC320W01-A6K3 (1366 x 768)	LPL
9.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : ~ 80 %	
10.	Storage Environment	1)Temp : -20 ~ 60 deg 2) Humidity : 0 ~ 90 %	

5. External Input Format

Component Video Input (Y, C_B/P_B, C_R/P_R)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock	Proposed
1	640 x 480	15.73	60		SDTV ,DVD 480I
2	704 x 480	31.47	59.94		SDTV 480P
3	1280 x 720	45.00	60.00		HDTV 720P
4	1280 x 720	44.96	59.94		HDTV 720P
5	1920 x 1080	33.75	60.00		HDTV 1080I
6	1920 x 1080	33.72	59.94		HDTV 1080I

RGB Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	
	PC					DDC
1	640*350	31.468	70.09	25.17	EGA	O
2	640*350	37.861	85.08	31.50	EGA	O
3	720*400	31.469	70.08	28.32	DOS	O
5	640*480	31.469	59.94	25.17	VESA(VGA)	O
6	640*480	37.861	72.80	31.50	VESA(VGA)	O
7	640*480	37.500	75.00	31.50	VESA(VGA)	O
9	800*600	35.156	56.25	36.00	VESA(SVGA)	O
10	800*600	37.879	60.31	40.00	VESA(SVGA)	O
11	800*600	48.077	72.18	50.00	VESA(SVGA)	O
12	800*600	46.875	75.00	49.50	VESA(SVGA)	O
14	1024*768	48.363	60.00	65.00	VESA(XGA)	O
15	1024*768	56.476	70.06	75.00	VESA(XGA)	O
16	1024*768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
17	704*480	31.47	59.94		SDTV 480P	
18	1280*720	45.00	60.00		HDTV 720P	
19	1280*720	44.96	59.94		HDTV 720P	
20	1920*1080	33.75	60.00		HDTV 1080I	
21	1920*1080	33.72	59.94		HDTV 1080I	

HDMI Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	
1	PC DDC					
2	640*480	31.469	59.94	25.17	VESA(VGA)	O
3	640*480	37.861	72.80	31.50	VESA(VGA)	O
4	640*480	37.500	75.00	31.50	VESA(VGA)	O
5	800*600	35.156	56.25	36.00	VESA(SVGA)	O
6	800*600	37.879	60.31	40.00	VESA(SVGA)	O
7	800*600	48.077	72.18	50.00	VESA(SVGA)	O
8	800*600	46.875	75.00	49.50	VESA(SVGA)	O
9	1024*768	48.363	60.00	65.00	VESA(XGA)	O
10	1024*768	56.476	70.06	75.00	VESA(XGA)	O
11	1024*768	60.023	75.02	78.75	VESA(XGA)	O
	DTV					
12	720*480	31.500	60	27.03	SDTV 480P	O
13	720*480	31.469	59.94	27.00	SDTV 480P	O
14	1280*720	45.000	60.00	74.25	HDTV 720P	O
15	1280*720	44.955	59.94	74.175	HDTV 720P	O
16	1920*1080	33.750	60.00	74.175	HDTV 1080I	O
17	1920*1080	33.716	59.94	74.25	HDTV 1080I	O

EDID data (HDMI) e Will be changed !!!

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	0E	01	03	80	46	28	96	0A	FB	2C	A3	57	47	9A	25
20	10	48	4B	AF	CE	00	31	4F	45	4F	61	4F	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	BA	88	21	00	00	18	00	00	00	FD	00	38	4B	1E
50	3D	08	00	0A	20	20	20	20	20	20	00	00	00	FC	00	33
60	32	4C	58	31	44	2D	55	0A	20	20	20	20	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	01	E8
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	13	F1	44	84	05	03	02	23	15	07	50	65	03	0C
10	00	10	00	01	1D	00	72	51	D0	1E	20	DC	28	45	04	BA
20	88	21	00	00	1E	01	1D	80	18	71	1C	16	20	94	2C	F5
30	00	BA	88	21	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	3C
40	3E	E6	04	BA	88	21	00	00	18	8C	0A	D0	8A	20	E0	2D
50	10	3C	3E	E6	04	BA	88	21	00	00	18	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	8E

EDID data (RGB)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	5D	46	01	01	01	01
10	07	0F	01	03	68	46	28	96	0A	FB	2C	A3	57	47	9A	25
20	10	48	4B	AF	CE	00	31	4F	45	4F	61	4F	01	01	01	01
30	01	01	01	01	01	01	C3	1E	00	20	41	00	20	30	10	60
40	36	00	BC	88	21	00	00	18	00	00	00	FD	00	38	4B	1E
50	3D	08	00	0A	20	20	20	20	20	20	00	00	00	FC	00	33
60	32	4C	58	31	44	2D	55	0A	20	20	20	20	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	55

6. General spec(Module)

No	Item		Min	Typ	Max	Unit	Remark
1	Active Screen Size			800.4(diagonal)		mm	31.51 inches
2	Outline Dimension			760(H) x 450(V) x 48(D)		mm	Typ.
3	Pixel Pitch			170.25 x 510.75 x RGB		μm	
4	Pixel Format			1366(H)x768(V) RGB stripe arrangement			
5	Color Depth			8bit 16.7		Mbit	
6	Luminance ,White			500		cd/m2	Center 1 point
7	Viewing Angle (CR>10)			R/L 176(Typ),U/P 176(Typ)		degree	
8	Power Consumption			89.5		Watt	Typ.
9	Weight			7.2		kg	
10	Display Operating Mode			Transmissive mode ,normally black			
11	Surface Treatment			Hard coating (3H), Anti-glare treatment			
12	Altitude	Operating		0 - 14,000		feet	4,267.2 m
		Storage/Shipment		0 - 40,000		feet	12,192.0 m
13	Lamp Life Time			50,000 (min.)		Hrs	25±2°C

ADJUSTMENT INSTRUCTION

1. Applicability

These specifications are applicable for all LCD TV models with an AL-04DA chassis that are manufactured by the Manufacturing Group of the Display Business Division, or any of its related manufacturers.

2. Specifications

2.1 This chassis is the non-charging type chassis for which the power unit is insulated. Therefore, the insulated type transformer is not required but it is recommended that it be used between the power supply line and chassis input side before running the chassis, in order to protect the adjustment equipment.

2.2 Adjustment should be made in the correct sequence. However, the order can be changed for mass production purposes.

2.3 The suggested surrounding temperature is $25\pm5^{\circ}\text{C}$, and suggested relative humidity is $65\pm10\%$ for the adjustment of the chassis, unless specified.


2.4 The input voltage should be maintained at 110V and 60MHz.

2.5 The receiver should run for about 15 minutes before starting adjustment, unless specified.

- Run prior operation after receiving 100% White pattern (06CH).
(OR, 9. White Pattern state in Ez-Adjust.)

- How to enter into the White Pattern

- 1) Press the Power ON key in the adjustment remote control.

- 2) Or, press the ADJ key on the adjustment remote control to enter into Ez-Adjust and select 9. White Pattern using CH +/- key. Then, press the OK () key to display 100% Full White Pattern.

* In this mode, the SET can be put on HEAT RUN without a separate signal generator.

Note) If you leave the stop image on for more than 20 minutes, you must be careful because an afterimage will appear on the black level section. (Applies to internal digital pattern (13CH) and cross hatch pattern (09CH) with clear black/white contrast, in particular).

3. Full assembly process adjustment

<Precaution>

Each PCB assembly must be checked using the check jig set before the full assembly process. (The power PCB assembly can damage the LCD module irreparably.)

3.1. Extended Display Identification Data (EDID) and Display Data Channel (DDC) download

3.1.1 Overview

Developed by VESA, the EDID function is designed to support the "plug & play" function, which enables the computer to configure the user environment automatically through communication with the monitor.

3.1.2 Entering the HDMI EDID Data

1) Equipment

- PC and DDC adjustment jig (PC serial to D-sub connection device)
- DDC recording software (EDID data write & read)
- D-Sub terminal
- Need separate HDMI cable connection jig.

3.2. Adjusting AD9883A-Set

3.2.1. Overview

AD9883A-Set adjustment automatically sets the optimal black level, and readjusts the RGB differences in analog -> digital converter. Adjustment is made separately for the component mode and RGB-DTV mode input.

3.2.2. Equipment

Adjustment remote control: 801GF (802B, 802F, 802R) or MSPG925FA Pattern Generator (It should support 720P horizontal 100% color bar pattern display, and the output level should be accurately corrected to $0.7\pm0.1\text{Vp-p}$.)

Adjustment pattern: 720P/60Hz HozBar Pattern (Format No. 217, Pattern No. 65)

3.2.3 Signal input method

Connect the component output and RGB D-Sub output of the Pattern Generator to the component 1 and RGB D-Sub jack of the set.

3.2.4. Adjustment method

- A) When entering the component, input 100% Horizontal Color Bar Pattern (HozTV30Bar) of the supportable 720P mode, and select Component 1 or Component 2 input, and select Normal image.
- B) Wait for at least one second after receiving the signal and press the ADJ key on the adjustment remote control to enter into Ez-Adjust. Then, select "1. AD9883A-Set" and press the + key for automatic adjustment.
- C) If adjustment is completed successfully, the "AD9883A Component Success" message will be displayed. Otherwise, the "AD9883A Configuration Error" message will be displayed.
- D) If the adjustment for component AD9883A is finished, it will automatically switch to RGB-DTV mode, and the above-mentioned pattern will be displayed. If adjustment is successfully completed, "AD9883A RGB_DTV Success" message will be displayed.
- E) If adjustment is not completed successfully, check the pattern or adjustment condition and try again.
- F) If adjustment is completed successfully, press the ADJ key to exit from the adjustment mode.

3.3. Adjusting White Balance

3.3.1 Equipment

- Color Analyzer (CA-100 or equivalent item)
- Automatic adjustment device (Needed for automatic adjustment. It should support RS-232C communication, Baud rate: 115,600)
- Pattern Generator (MSPG-925FA): Equipment with DVI output.
- Pattern: High light 80% Full White

3.3.2 Measurer Connection Diagram (Automatic adjustment)

Connection diagram for 32LX1D-U automatic adjustment

Note) RS-232C Commands used for automatic adjustment.

3.3.3. Manual White Balance Adjustment

When adjusting after carrying out zero calibration for CA-100, the sensor should be tightly fixed on the LCD module surface. Take the following steps for manual adjustment.

- A) Press the ADJ key on the adjustment remote control to enter into "Ez-Adjust."
- B) Select "9. White Pattern" using CH +/- key and press the OK key. Then, perform Heat Run for more than 30 minutes.
- C) Make the Digital Pattern Generator supply Full White Pattern signal.
(Connect the external input to "HDMI".)
- D) Fix the sensor to the screen center and press the ADJ key on the adjustment remote control to select "6. White balance" in "Ez-Adjust". Then, press the right direction key (→) to enter into the adjustment mode.
- E) Adjust the high light using R Gain, G Gain, and B Gain.
- F) Use Volume +/- key for adjustment.

3.3.4. Adjustment Target value

- Brightness value
- Target value
X coordinate value / Y coordinate value /
White Balanc / Special items.

3.4 Video (uPD) - Automatic Set Adjustment

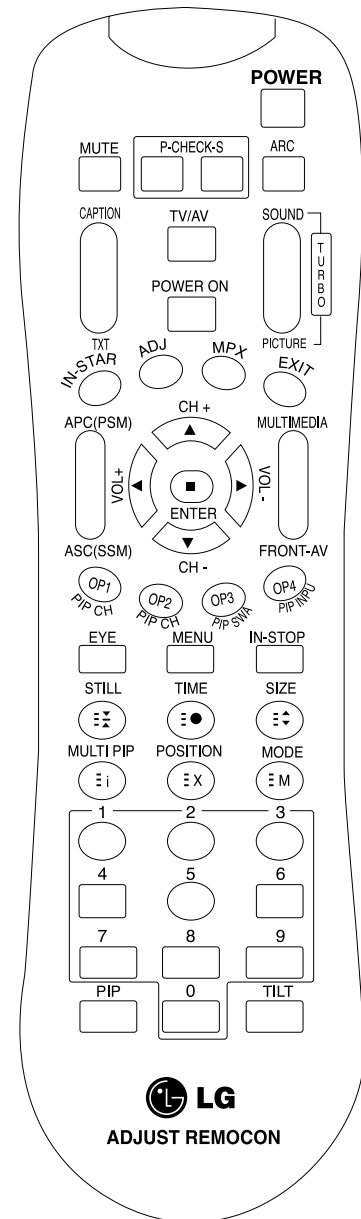
This automatic adjustment function narrows the color difference between the main and sub screen of the RF and video signal. Adjustment is made for both RF mode and video 1 mode. The signal source of RF is internal 02Ch, and the signal source for video 1 is 100% full color bar.

3.5 RS232C Operation Check

Press In-start in the adjustment remote control and enter '6. Baud Rate' menu. Then, change the baud rate to 9600 and check RS232C operation.

SVC REMOCON

NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMEDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	




HOTEL MODE

1. Hotel Option Configuration

When using the service remote control, press the In-Start key, and when using the user remote control, press the menu of the local key and the menu of the user remote control simultaneously for 10 seconds to enter the service mode.

Press the menu key one more time with the service mode OSD displayed and move to the hotel option setup page to set up.

LG Hotel mode set up	
Channel Menu Display	YES
Channel Change	YES
Input Mode Change	YES
Fixed Volume	YES
Max Volume 30	
OSD Display YES	
Remocon Operation	YES
Local Key Operation	YES
On Monitor Operation	YES
Volume	On
	30
Channel	On
	1
Auto Off Operation	YES
Hotel Mode Operation	YES
	

1.1. Station Menu Display

- Decide to enter 'Station Menu' or not in the 'Main Menu' by setting 'Station Menu Display' as Yes(Enter Possible) or No(Enter Impossible) on the "LG Hotel Mode" OSD.

1.2. Program Change

- Decide to change channel or not by setting 'Program Change' as Yes(Change Possible) or No(Change Impossible) when present source is TV.
- When 'Program Change' is set to No(Change Impossible), Channel Key, Numeral Key, List Key, Q.View Key doesn't work and entering 'Program Menu' in the Main Menu OSD is impossible.
- When 'Program Change' is set to Yes(Change Possible), Channel Key, Numeral Key, List Key, Q.View Key does work and entering 'Channel Menu' in the Main Menu OSD is possible.
- When 'Program Change' is set to No(Change Impossible), 'Channel' item in 'On Time' menu will be fixed.
- When 'Program Change' is set to No(Change Impossible), entering 'Channel Menu' in the 'Main Menu' OSD is impossible regardless of 'Channel Menu Display' item.

1.3. Input Source Change

- Decide to change input source or not by setting 'Input Source Change' as Yes(Change possible) or No(Change impossible).
- When 'Input Source Change' is set to No(Change impossible), TV/AV key and Multimedia key doesn't work, and entering 'Input' item in the 'Main Menu OSD' is impossible.
- When 'Input Source Change' is set to No(Change impossible), user's input (pressing Channel key, numeral key, List key, Q.View key in all Input source except TV source) doesn't work and when entering 'Channel Menu' item in the 'Main Menu OSD' except TV mode doesn't accepted. Because entering 'Channel Menu' item makes present mode as TV mode even though present mode is not TV mode. for the function that turns to TV mode doesn't work.
- When 'Input Source Change' is set to Yes(Change possible), then changing input source is available.
- When 'Input Source Change' is set to No(Change Impossible), TV set always turns on fixed input source and volume information regardless of already set channel information.
- When 'Input Source Change' is set to No(Change Impossible), entering 'Channel Menu' except TV mode doesn't possible regardless of 'Channel Change' or 'Channel Menu Display' item.

1.4. Fixed Volume

- Decide to fix volume or not by setting 'Fixed Volume' as Yes(Change possible) or No(Change impossible).
- When 'Fixed Volume' is set to Yes(Set), it fixed present volume and volume key doesn't work.
- When 'Fixed Volume' is set to Yes(Set), volume doesn't change during 'Mute On' but release mute.
- When 'Fixed Volume' is set to No(Not Set), user can change volume.
- In the case of both 'Fixed Volume' and 'On Time' is set to Yes(Set), but just the value is different, then Fixed Volume value has priority.
- When 'Fixed Volume' is set to Yes(Set), user cannot select 'Max Volume' item.
- When 'Fixed Volume' is set to Yes(Set), 'On Time' menu's Volume item fixed to present volume.

1.5. Max Volume

- Decide 'Max Volume' between changing range 0 ~ 100.
- When 'Max Volume' is set, user can change up to set volume value.
- In the case of 'Fixed Volume' is set to Yes, 'Max Volume' item cannot be selected.
- When 'Max Volume' is set, volume just goes up to the 'Max Volume' value in 'On Time Menu'.

1.6. OSD Display

- Decide to display OSD or not by setting 'OSD Display' as Yes(Mark) or No(No Mark).
- When 'OSD Display' is set to No(No Mark), just Channel OSD and STEREO OSD doesn't display.

1.7. Remocon (Remote Control) Operation

- Decide to operate Remote Control or not by setting "Remocon Operation" as Yes(Work) or No(Do Not Work).
- When "Remocon Operation" is set to No(Do Not Work), all remocon key doesn't work include Power Key.
- When "Remocon Operation" is set to No(Do Not Work), In-start key and In-stop key still work.
- When "Remocon Operation" is set to No(Do Not Work), 'Remocon Operation' working in service mode is available.
- When "Remocon Operation" is set to Yes(Work), all Remocon keys work properly.

1.8. Local Key Operation

- Decide to operate 'Local Key' or not by setting "Local Key Operation" as Yes(Work) or No(Do Not Work).
- When 'Local Key Operation' is set to No(Do Not Work), all Local Key doesn't work include Power Key.
- When 'Local Key Operation' is set to No(Do Not Work), Local Key working in service mode is still available.
- When 'Local Key Operation' is set to Yes(Work), all Local Key working is available.
- When set both 'Local Key' and 'Remocon Operation' as No(Do Not Work), Power key of Remocon work as exceptional case.

1.9. Power On Operation

- Decide to set Channel and Volume value or not those are displaying when Power On by setting 'Power On Operation' as Yes(Work) or No(Do Not Work).
- When 'Power On Operation' is set to No(Do Not Work), user cannot enter inside of 'channel' and 'volume' item.
- When 'Power On Operation' is set to Yes(Work), user can enter inside of menu and set value.
- When 'Channel' item of 'Power On Operation' is set to No(Do Not Work), and 'Power On Operation' is set to Yes(Work), then TV saves present input source and always turn on as the saved input source when turn on. If user enters Hotel Mode as other input source that user wants (except TV mode), and set 'Channel' item as Yes(Work), then it will work.
- When 'Power On Operation' is set to No(Do Not Work), TV will be turned on as last memorized channel or input source.

1.10. Program

- Decide to turn on TV as set channel or last memorized channel or not by setting 'Channel' as On(Work) or Off(Do Not Work).
- When 'Power On Operation' is set to Yes(Work), then user can enter 'Channel' and set the value.
- When 'Power On Operation' is set to On(Work), setting 'Channel' value of 'Power On Operation' is possible and TV always turns on as set 'Channel' value.
- When 'Power On Operation' is set to Off(Do Not Work), setting 'Channel' value of 'Power On Operation' is impossible and TV turns on last memorized channel.
- If user wants to turn on by other Input source except TV, change Input source as you want and enter to 'Hotel Mode', then select 'Channel' item as Off(Do Not Work) or Do Not select this item On(Work) from the beginning.
- In the case of both 'Channel' and 'On Time' is set, but just the value is different, then 'Channel' value has priority.

1.11. Set ID Lock

- Decide to activate 'Set ID' in the Special Menu of the Main Menu or not.
- When 'Set ID Lock' is set to Yes(Change Impossible), 'Set ID' item in 'Special' menu is available.
- When 'Set ID Lock' is set to No(Change Impossible), 'Set ID' item in 'Special' menu is not available.

1.12. Set ID

- Set a value of 'Set ID' between number 1 and 99.

1.13. Auto Off Operation

- If there's no key input during 2 hours after turn on TV by 'Power On' function of the 'On Time', then turn off TV by 'Auto Off' function of 'Time Menu'. This item decide to turn on TV by 'Auto Off Operation' regardless of 'Auto off' function of 'Time Menu' or not by setting as Yes(Work) or No(Do Not Work).
- When 'Auto Off Operation' is set to Yes(Work), 'Auto Off Operation' work as configuration.
- When 'Auto Off Operation' is set to No(Do Not Work), 'Auto Off Operation' Do Not work regardless of configuration.

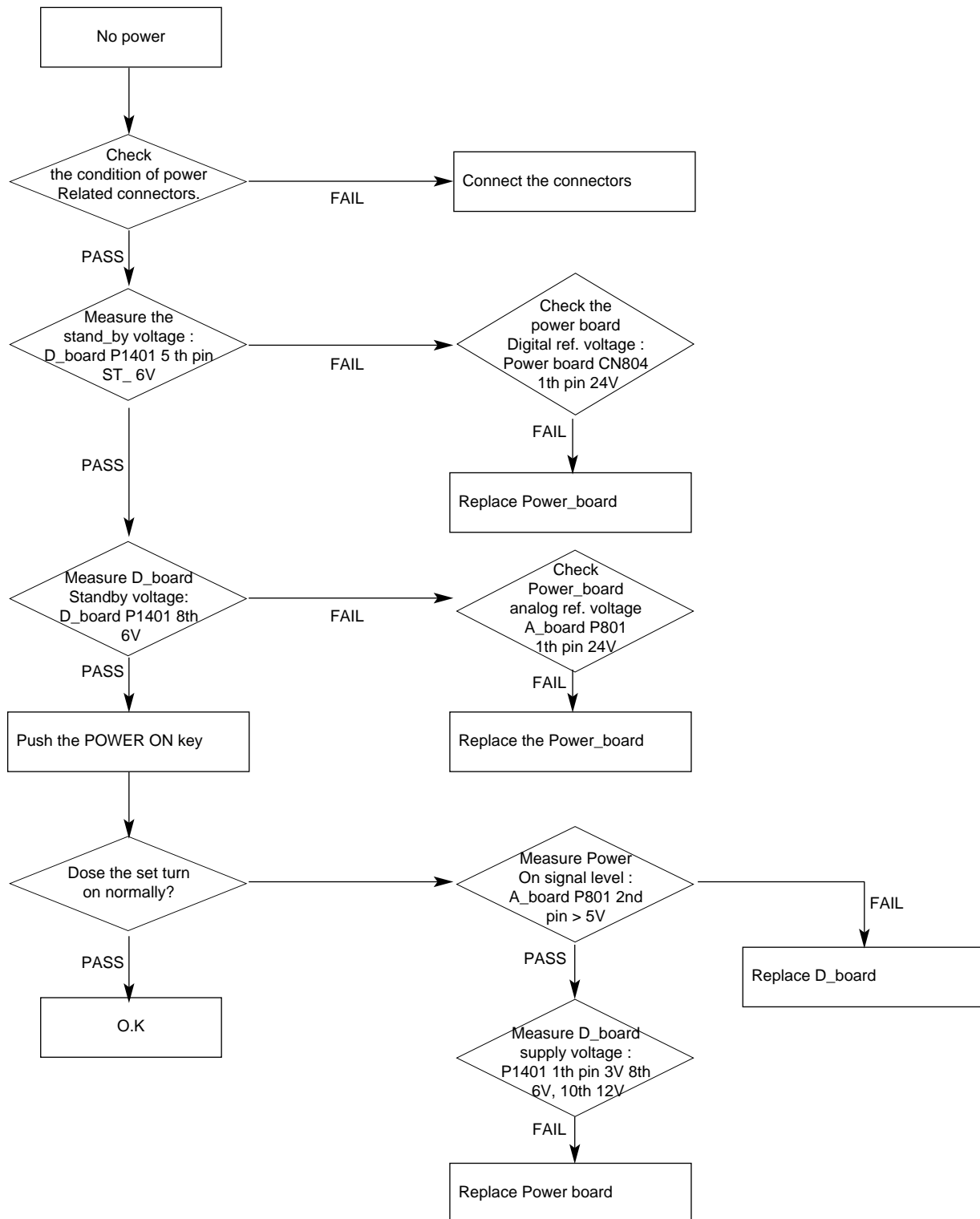
1.14. Hotel Mode Operation

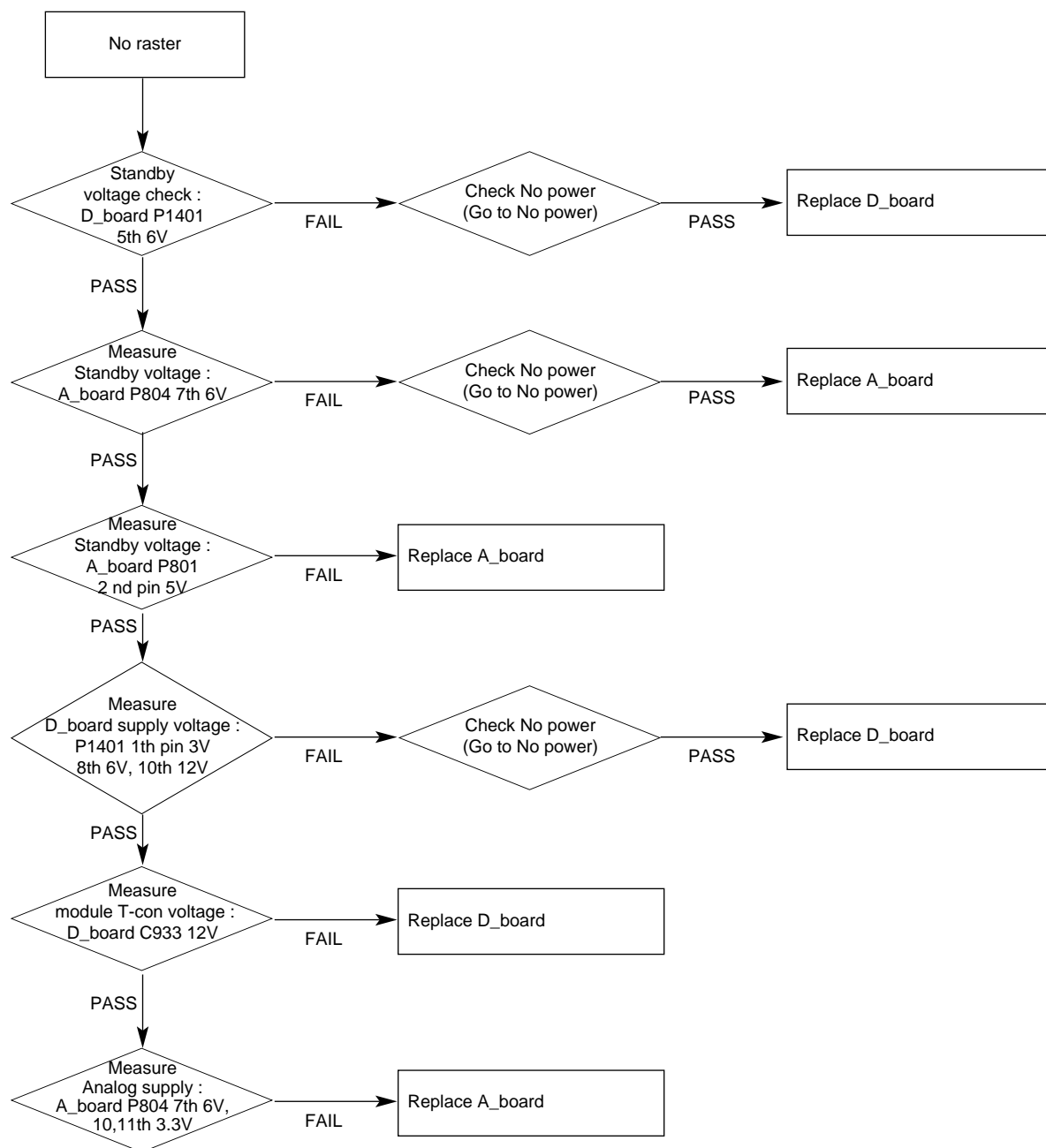
- Decide to work all functions of 'Hotel Mode Operation' or not by setting 'Hotel Mode Operation' as Yes(Work) or No(Do Not Work).
- When 'Hotel Mode Operation' is set to Yes(Work), all functions of Hotel Mode apply.
- When 'Hotel Mode Operation' is set to No(Do Not Work), all functions of Hotel Mode Do Not apply

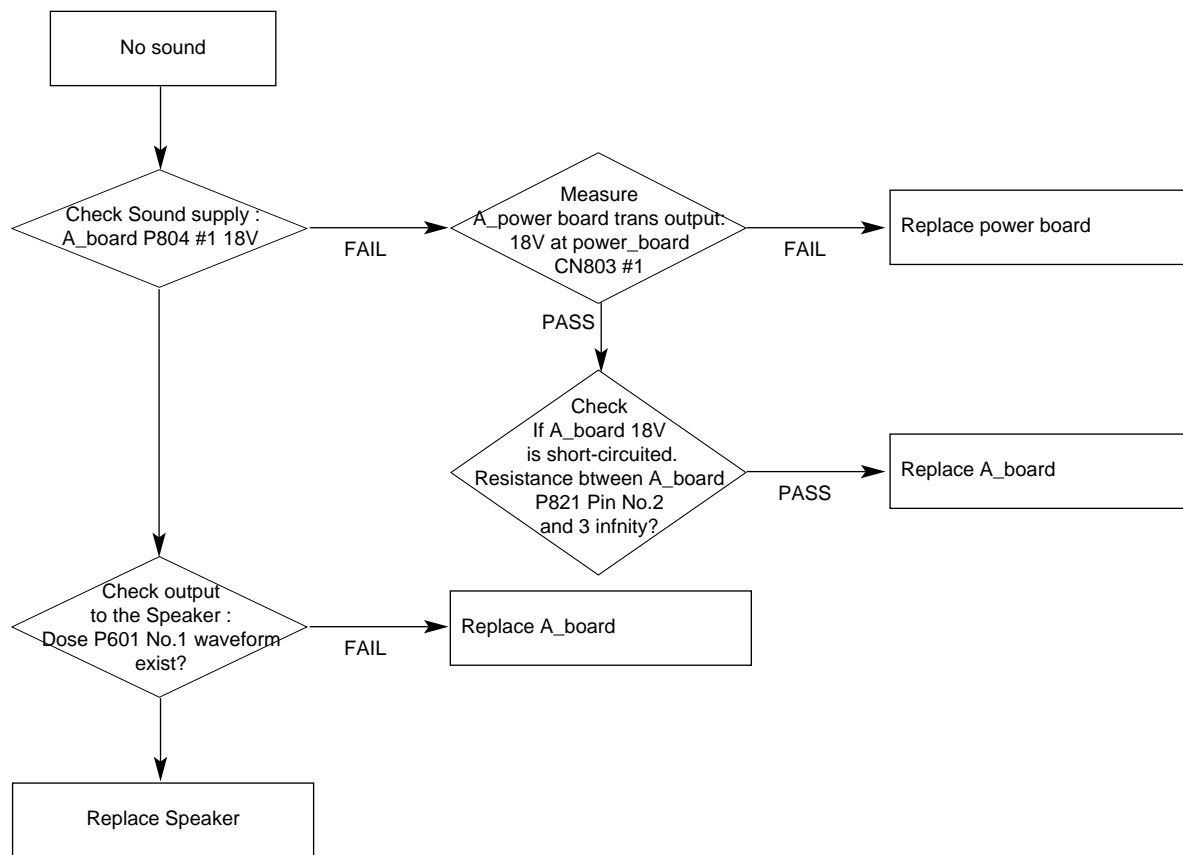
2. Initial Configuration and Configuration Detail

Setting Item	Activated	Deactivated	Default
Station Menu	Yes	No	Yes
Program Change	Yes	No	Yes
Input Mode Change	Yes	No	Yes
Fixed Volume	Yes	No	No
Max Volume	0 ~ 100		100
OSD Display	Yes	No	Yes
Remote Operation	Yes	No	Yes
Local Key Operation	Yes	No	Yes
Power On Operation	Yes	No	No
Volume	On	Off	Off
Volume Level	0 ~ 100		30
Program	On	Off	Off
Program Level	1 ~ 99		1
Set ID Lock	Yes	No	Yes
Set IDI	1 ~ 99		No
Auto Off Operation	Yes	No	Yes
Hotel Mode Operation	Yes	No	No

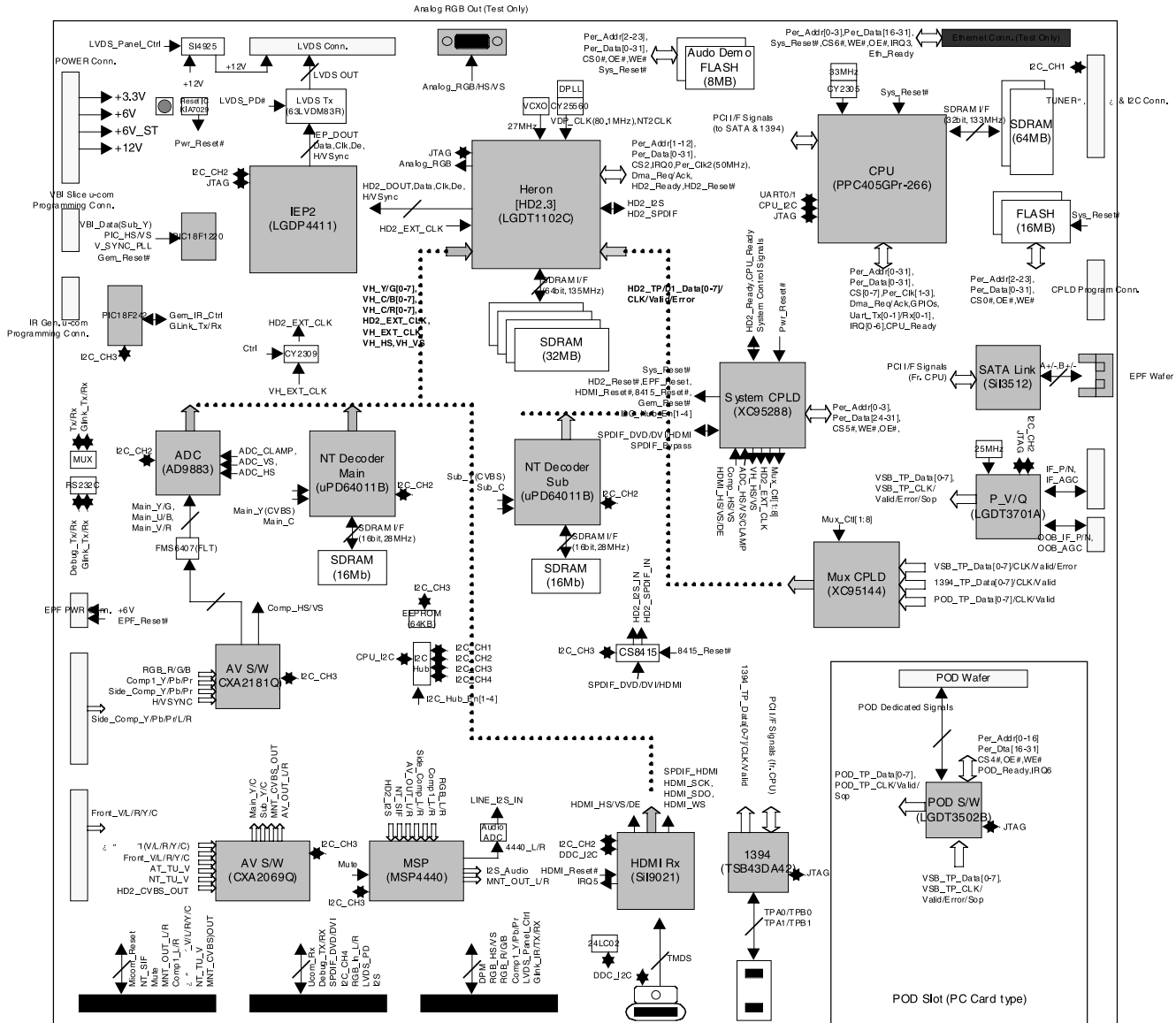
TROUBLESHOOTING







BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

In this system there are 2 tuners - ATSC/NTSC tuner(TDVS-H701P) and NTSC-only tuner.(TAFM-H103P)
So it is impossible to have a digital (main)/digital (sub) PIP.

CXA2181Q is the AV switch for the component signals and CXA2069Q is the AV switch for the composite signals.
The audio signals which separated by CXA2069 are sent to MSP4440.
AD9883 is AD converter and there are 2 NT decoders (uPD64011B) for main and sub NT signals each.

Gemstar is TV Guide On Screen system which provides program listings for cable-ready, cable box, and digital cable services as well as over-the-air broadcast. And it needs 2 micoms (PIC18F242 is for IR blast and PIC18F1220 is for VBI slicing).

HD2.3 can receive TP data, MPEG2 video decoding and image processing. IEP2 chip enhances the output image quality.

Main CPU (PPC405GPr-266) is the central processing IC, which controls most of the ICs.
CPLD (XC95288, XC95144) implements the glue-logic.

SATA Link(Sil3512) converts the SATA I/F to PCI for the EPF(memory card I/F) data. This TV will display images or play music from a memory card(CF,SD,xD, MMC etc.)

1394 communicates to either direction and can give and take image, sound, or each control commands with only one cable (this TV can communicate with DVHS / Camcoder).

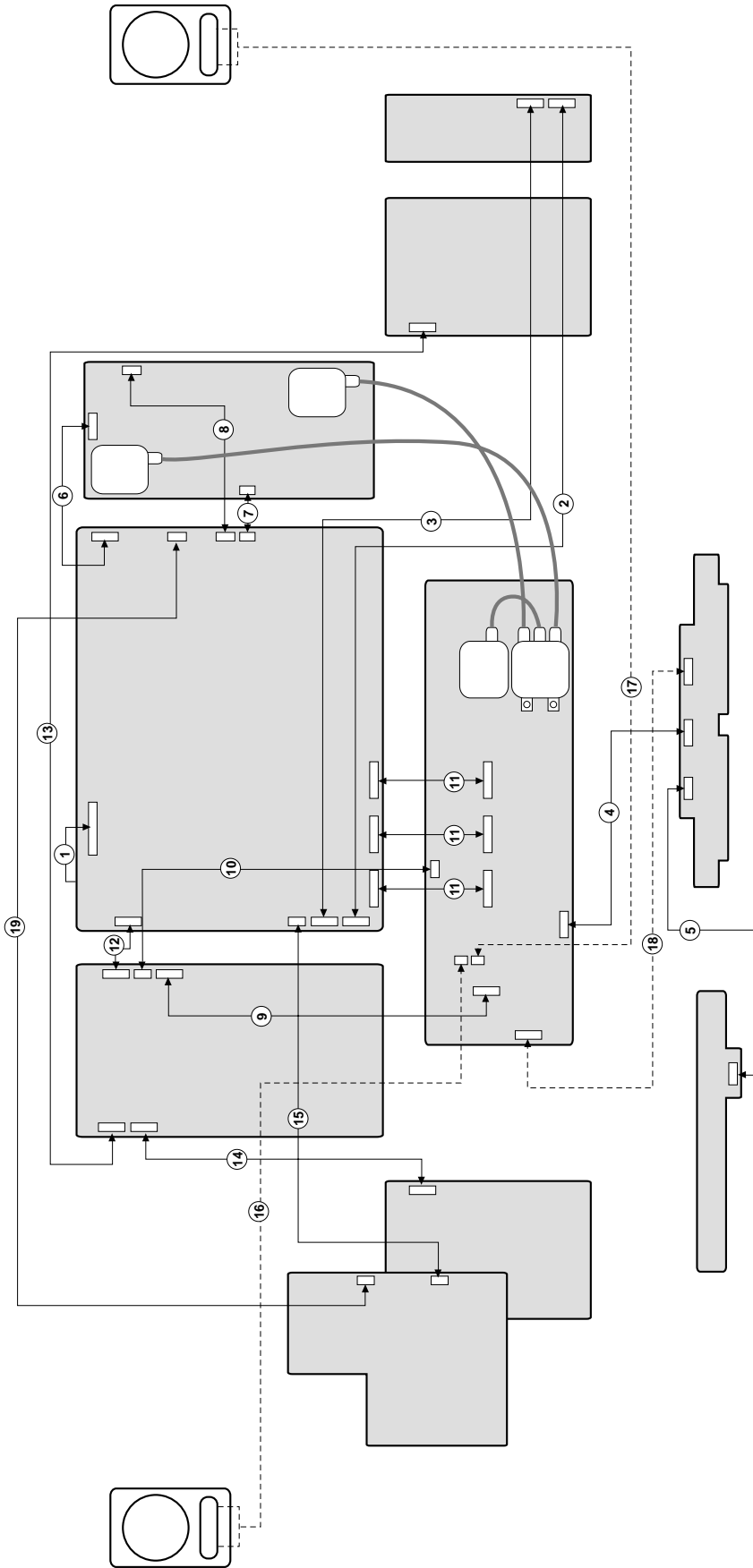
HDMI port can receive video data via High-Definition Multimedia Interface (HDMI) or the Digital Visual Interface (DVI).
Sil9012 is HDMI receiver IC and TSB43DA42 controls the 1394 I/F.

This TV is capable of receiving basic analog, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by cable operator (CableCard) is required to view encrypted digital programming. Channel informations can receive in the OOB channel.

LGDT3701A demodulates the VSB/QAM signals and also OOB signal (QPSK).

LGDT3502B generates the CableCard I/F signals and decodes copy protected stream.

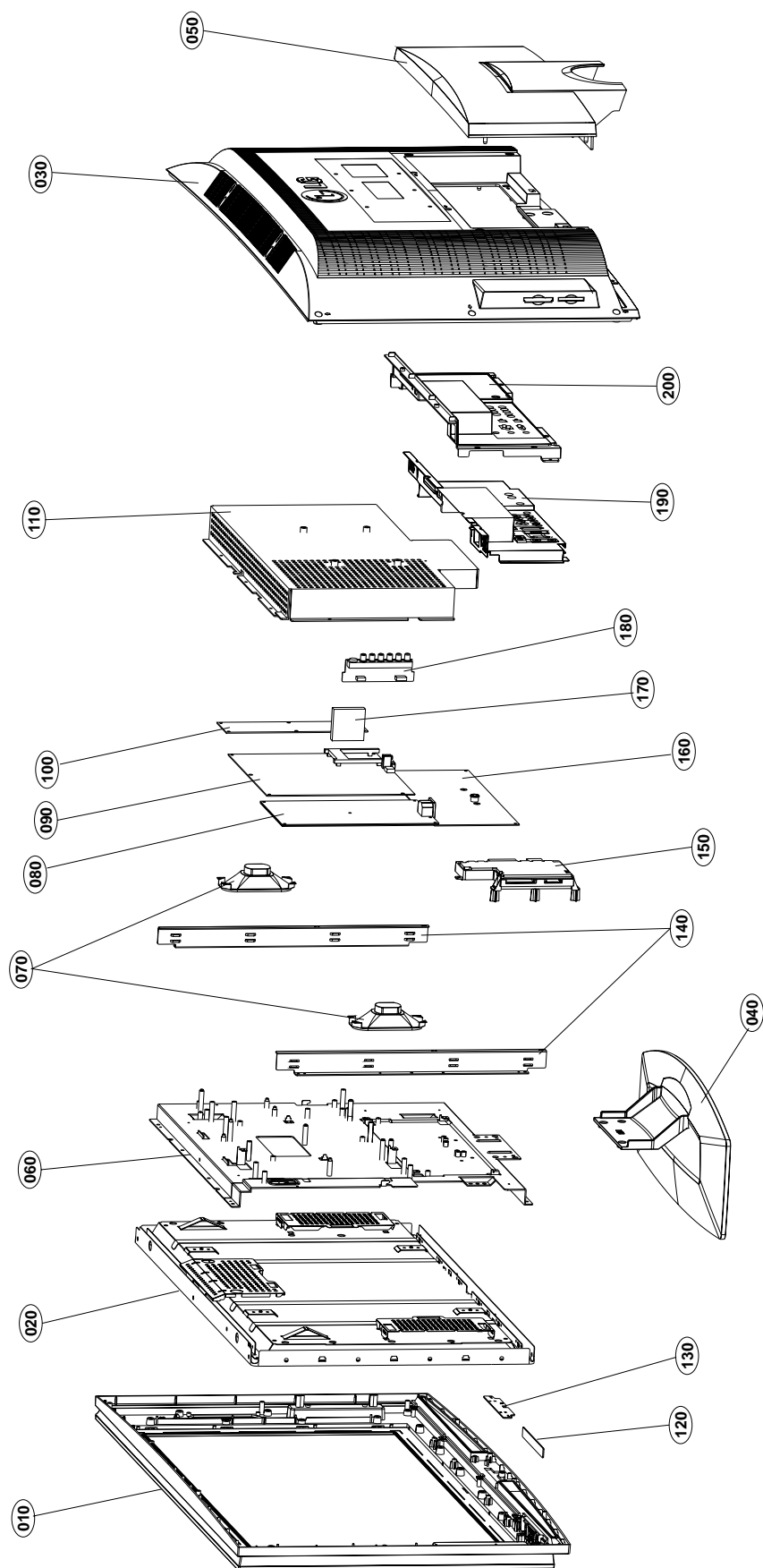
WIRING DIAGRAM



Wiring Part List

NO.	PART NO.	NO.	PART NO.	NO.	PART NO.	NO.	PART NO.
1	6631T11020Z	6	6631T25019B	11	6631T11022A	16	6631T25024H
2	6631T20037L	7	6631T25019V	12	6631T25023Z	17	6631T25024G
3	6631T20037M	8	6631T25024E	13	6631T20037D	18	6631T20037Q
4	6631T20037P	9	6631T25023H	14	6631T20037E	19	6850U00002D
5	6631T20037N	10	6631T25023V	15	6631T25024F		

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE034A	CABINET ASSEMBLY, 32LX1D-UA BRAND 3090TKE026 SET
	3091TKE034B	CABINET ASSEMBLY, 32LX1D-UA BRAND 3090TKE026 CSKD
020	6304FLP290A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-A6K6 LG PHILPS TFT COLOR WXGA AIODC
	6304FLP181A	LCD(LIQUID CRYSTAL DISPLAY), LC320W01-A6K3 LG PHILPS TFT COLOR AI ODC
030	3809TKE030A	BACK COVER ASSEMBLY, 32LX1D 3808TKE025 SET
	3809TKE030B	BACK COVER ASSEMBLY, 32LX1D 3808TKE025 CSKD
040	3043TKK250A	TILT SWIVEL ASSEMBLY, 32LX1D STAND ASSY
	3043TKK250B	TILT SWIVEL ASSEMBLY, 32LX1D STAND ASSY CSKD
050	3550TKK837A	COVER, COVER REAR 32LX1D
	3550TKK837B	COVER, COVER REAR 32LX1D CSKD
060	4951TKK238B	METAL ASSEMBLY, FRAME REAR 32LX1D
	4951TKK238D	METAL ASSEMBLY, FRAME REAR 32LX1D CSKD
070	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
080	6871TPT303B	PWB(PCB) ASSEMBLY,POWER, DU/DN/DI-32LP10 POWER TOTAL BRAND DU(DCR) COMM - SH(D112)
090	3313TD3043A	MAIN TOTAL ASSEMBLY, 32LX1D-U DIGITAL BRAND
100	6871TST954A	PWB(PCB) ASSEMBLY, SUB, 32LX1D-U TUNER ETC TOTAL BRAND
110	4815TKK046A	SHIELD ASSEMBLY, REAR SHIELD ASSY 32LX1D
	4815TKK046D	SHIELD ASSEMBLY, REAR SHIELD ASSY 32LX1D CSKD
120	6871TSTA48A	PWB(PCB) ASSEMBLY,SUB, 26/32LX1D-UA KEY CONTROL TOTAL BRAND .
130	6871TST952A	PWB(PCB) ASSEMBLY,SUB, 32LX1D-U LIGHT&IR ETC TOTAL BRAND .
140	4950TKA210A	METAL, SIDE BRACKET 32LX1D
150	6871TST954A	PWB(PCB) ASSEMBLY,SUB, 32LX1D-U TUNER ETC TOTAL BRAND .
160	3313TD3033A	MAIN TOTAL ASSEMBLY, 32LX1D-U ANALOG BRAND.
170	4951TKK262A	METAL ASSEMBLY, SUPPORT FAN ASSY 5900V05005A
	or 4951TKK262B	METAL ASSEMBLY, SUPPORT FAN ASSY 5900V05005B
180	6871TST953A	PWB(PCB) ASSEMBLY,SUB, 32LX1D-U SIDE A/V ETC TOTAL BRAND .
190	4950TKA210A	METAL, SIDE BRACKET 32LX1D
200	3551TKK589A	COVER ASSEMBLY, 32LX1D-UA REAR AV BRACKET ASSY
	3551TKK589D	COVER ASSEMBLY, 32LX1D-UA CSKD REAR AV BRACKET ASSY

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 04. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD(Analog)				
CAPACITOR				
		C646	0CH8106J611	10UF 35V M 85STD(CYL) R/TP
		C114	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C115	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C205	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C206	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C207	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C208	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C408	0CH6100K116	10PF 50V D NP0 2012 R/TP
		C409	0CH6100K116	10PF 50V D NP0 2012 R/TP
		C102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C217	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C219	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C401	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C405	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C407	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C411	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C412	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C604	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C605	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C607	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C609	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C610	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C611	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C612	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C624	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C626	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C629	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C631	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C633	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C634	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C635	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C637	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C644	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C645	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C647	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C648	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C658	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C701	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C703	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C705	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C706	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C708	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C712	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C713	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C715	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C717	0CH3334K946	"0.33UF 50V 80%,-20% F(Y5V) 2"

DATE: 2005. 04. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C718	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C720	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C721	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C723	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C725	0CH3334K946	"0.33UF 50V 80%,-20% F(Y5V) 2"
		C728	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C729	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C739	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C740	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C742	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C803	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C804	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C806	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C808	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C810	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C812	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C814	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C817	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C819	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C822	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C823	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C825	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C827	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C830	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C833	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C109	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C120	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C122	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C613	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP F"
		C614	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C615	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C616	0CK105DK94A	"1UF 2012 50V 80%,-20% R/TP F"
		C623	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C625	0CK333CK56A	33000PF 1608 50V 10% R/TP X7
		C627	0CK333CK56A	33000PF 1608 50V 10% R/TP X7
		C628	0CK333CK56A	33000PF 1608 50V 10% R/TP X7
		C630	0CK333CK56A	33000PF 1608 50V 10% R/TP X7
		C638	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C639	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C640	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C641	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C663	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C664	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C665	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C710	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C726	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C843	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C107	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C110	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C113	0CC561CK41A	560PF 1608 50V 5% NP0 R/TP
		C214	0CC220CK41A	22PF 1608 50V 5% R/TP NP0

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C215	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C216	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C662	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C642	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20% F"
		C643	0CE108EJK18	"1000UF KMG,RD 35V 20%,-20% F"
		C101	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C105	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C108	0CE105SK6DC	1UF MVG 50V 20% SMD R/TP
		C117	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C119	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C121	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C204	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C403	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C404	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C406	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C410	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C413	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C606	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C608	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C650	0CE336VF6DC	33UF MV 16V 20% R/TP(SMD) SM
		C657	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C661	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C702	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C704	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C707	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C709	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C711	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C714	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C716	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C719	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C722	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C724	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C727	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C730	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C741	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C743	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C801	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C802	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C805	0CE107VH6DC	100UF MV 25V 20% R/TP(SMD) S
		C807	0CE107VH6DC	100UF MV 25V 20% R/TP(SMD) S
		C809	0CE107VH6DC	100UF MV 25V 20% R/TP(SMD) S
		C811	0CE107VH6DC	100UF MV 25V 20% R/TP(SMD) S
		C813	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C816	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C818	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C820	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C821	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C824	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C826	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C829	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C831	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C832	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C834	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C835	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C836	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C838	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C840	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C841	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C842	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C844	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) S
		C632	OCF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
		C636	OCF4741L438	0.47UF D 63V 5% TP 5 M/PE NI

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
DIODEs				
		D201	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTEC
		D202	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTEC
		D203	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTEC
		D101	0DS181009AA	KDS181 TP KEC SOT-23 80V 3
		D701	0DS226009AA	KDS226 TP KEC - 80V - - 4NSE
		D702	0DS226009AA	KDS226 TP KEC - 80V - - 4NSE
		ZD205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD221	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD222	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD224	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD225	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD228	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD229	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD215	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
		ZD216	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
		ZD217	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
		ZD218	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
		ZD219	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0
		ZD401	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
IC				
		IC101	0IZZTSZ677A	32LX1D-U MICOM 48P .
		IC103	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VOL
		IC601	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQF"
		IC102	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P
		IC201	0IMMRAL014B	AT24C02N-10SI-2.7 ATMEL 8P S
		IC602	0IMCRTI028C	"TAS5122DCARG4,LF TEXAS INST"
		IC706	0IMI623200B	"M62320FP,I/O EXPANDER 16P SO"
		IC701	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC702	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC704	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC705	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
COIL & CORE & FILTER & INDUCTOR				
		L602	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L603	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L604	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L605	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		TU401	6852TAZ012J	"COAXIAL, UL 1365 AWG 26 70MM"
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L103	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L235	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L607	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L701	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L702	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L703	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L816	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L819	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L820	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L821	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L822	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L823	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L826	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		R818	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		GT10	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		GT2	6210TCE001G	HH-1M3216-501 CERATEC 3216MM

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		GT3	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		GT5	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		GT8	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		GT9	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L102	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L203	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L704	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L705	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L706	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L707	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L708	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L711	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L801	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L807	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L808	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L809	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L810	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L811	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L812	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L813	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L814	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L818	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L825	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L827	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R812	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R813	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R814	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R815	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R816	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R817	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L830	6210TCE0017	HH-1M3216-121JT CERATEC R/TP
		L831	6210TCE0017	HH-1M3216-121JT CERATEC R/TP
		L832	6210TCE0017	HH-1M3216-121JT CERATEC R/TP
		L833	6210TCE0017	HH-1M3216-121JT CERATEC R/TP
		L201	0LC2000005J	"FI-C2012-682,6.8UH CERATECH"
		L202	0LC2000005J	"FI-C2012-682,6.8UH CERATECH"
		L402	0LC2000005J	"FI-C2012-682,6.8UH CERATECH"
		L403	0LC2000005J	"FI-C2012-682,6.8UH CERATECH"
TRANSISTOR				
		IC707	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		Q101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q401	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q402	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q403	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q404	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q806	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q807	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q808	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q701	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q809	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q810	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q811	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
RESISTORS				
		R101	0RH3300D622	330 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R102	0RH1000D622	100 1/10W 5 D.R/TP
		R109	0RH1000D622	100 1/10W 5 D.R/TP
		R111	0RH1000D622	100 1/10W 5 D.R/TP
		R115	0RH1000D622	100 1/10W 5 D.R/TP
		R120	0RH1000D622	100 1/10W 5 D.R/TP
		R121	0RH3300D622	330 1/10W 5 D.R/TP
		R123	0RH1000D622	100 1/10W 5 D.R/TP
		R124	0RH1000D622	100 1/10W 5 D.R/TP
		R127	0RH4700D622	470 1/10W 5 D.R/TP
		R128	0RH1004D422	1M OHM 1 / 10 W 1% D R/TP
		R131	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R132	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R133	0RH1000D622	100 1/10W 5 D.R/TP
		R135	0RH6202D622	62K 1/10W 5 TA
		R143	0RH1000D622	100 1/10W 5 D.R/TP
		R144	0RH1000D622	100 1/10W 5 D.R/TP
		R147	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R151	0RH4702D622	47K 1/10W 5 D.R/TP
		R154	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R163	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R172	0RH1202D622	12K 1/10W 5 D.R/TP
		R201	0RH2200D622	220 1/10W 5 D.R/TP
		R202	0RH4703D622	470K 1/10W 5 D.R/TP
		R203	0RH2200D622	220 1/10W 5 D.R/TP
		R204	0RH4703D622	470K 1/10W 5 D.R/TP
		R205	0RH2200D622	220 1/10W 5 D.R/TP
		R206	0RH4703D622	470K 1/10W 5 D.R/TP
		R207	0RH2200D622	220 1/10W 5 D.R/TP
		R208	0RH4703D622	470K 1/10W 5 D.R/TP
		R210	0RH0752D622	75 1/10W 5 D.R/TP
		R214	0RH0822D622	82 1/10W 5 D.R/TP
		R216	0RH0822D622	82 1/10W 5 D.R/TP
		R218	0RH0822D622	82 1/10W 5 D.R/TP
		R219	0RH2200D622	220 1/10W 5 D.R/TP
		R220	0RH4703D622	470K 1/10W 5 D.R/TP
		R221	0RH2200D622	220 1/10W 5 D.R/TP
		R222	0RH4703D622	470K 1/10W 5 D.R/TP
		R223	0RH2200D622	220 1/10W 5 D.R/TP
		R224	0RH4703D622	470K 1/10W 5 D.R/TP
		R225	0RH2200D622	220 1/10W 5 D.R/TP
		R226	0RH4703D622	470K 1/10W 5 D.R/TP
		R233	0RH1000D622	100 1/10W 5 D.R/TP
		R236	0RH1202D622	12K 1/10W 5 D.R/TP
		R238	0RH7500D622	750 OHM 1 / 10 W 5% D R/TP
		R240	0RH0822D622	82 1/10W 5 D.R/TP
		R241	0RH1000D622	100 1/10W 5 D.R/TP
		R243	0RH0822D622	82 1/10W 5 D.R/TP
		R245	0RH0822D622	82 1/10W 5 D.R/TP
		R248	0RH0752D622	75 1/10W 5 D.R/TP
		R250	0RH0752D622	75 1/10W 5 D.R/TP
		R251	0RH1000D622	100 1/10W 5 D.R/TP
		R261	0RH0272D622	27 1/10W 5 D.R/TP
		R262	0RH0272D622	27 1/10W 5 D.R/TP
		R263	0RH0272D622	27 1/10W 5 D.R/TP
		R401	0RH4700D622	470 1/10W 5 D.R/TP
		R402	0RH1202D622	12K 1/10W 5 D.R/TP
		R406	0RH0822D622	82 1/10W 5 D.R/TP
		R419	0RH1201D622	1.2K 1/10W 5 D.R/TP
		R423	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R427	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R429	0RH0102D622	10 1/10W 5 D.R/TP
		R649	0RH0102D622	10 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R652	0RH1000D622	100 1/10W 5 D.R/TP
		R824	0RH1502D622	15K 1/10W 5 D.R/TP
		R825	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R827	0RH1502D622	15K 1/10W 5 D.R/TP
		R828	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R830	0RH1502D622	15K 1/10W 5 D.R/TP
		R831	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R845	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R846	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R847	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R104	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R105	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R107	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R122	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R125	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R136	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R140	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R141	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R145	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R152	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R156	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R173	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R209	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R211	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R213	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R215	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R217	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R228	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R229	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R234	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R237	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R239	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R242	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R244	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R247	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R249	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R255	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R403	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R405	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R407	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R408	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R410	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R411	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R422	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R424	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R426	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R428	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R616	0RH0201D622	2 OHM 1 / 10 W 2012 5.00% D
		R618	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R619	0RH0201D622	2 OHM 1 / 10 W 2012 5.00% D
		R624	0RH0201D622	2 OHM 1 / 10 W 2012 5.00% D
		R625	0RH0201D622	2 OHM 1 / 10 W 2012 5.00% D
		R634	0RH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R701	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R806	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R826	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R829	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R832	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R100	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R103	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R108	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R110	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R112	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R113	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R114	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R116	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R117	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R118	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R126	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R129	0RJ1004D477	1M OHM 1/10 W 1% 1608 R/TP
		R130	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R134	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R137	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R138	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R139	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R142	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R146	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R148	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R149	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R150	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R153	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R155	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R157	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R158	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R159	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R160	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R161	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R162	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R164	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R166	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R230	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R231	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R256	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R257	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R259	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R260	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R604	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R605	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R606	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R607	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R608	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R609	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R610	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R611	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R612	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R614	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R617	0RJ0471D677	4.7 OHM 1/10 W 5% 1608 R/TP
		R620	0RJ0201D677	2 OHM 1/10 W 5% 1608 R/TP
		R621	0RJ0201D677	2 OHM 1/10 W 5% 1608 R/TP
		R622	0RJ0201D677	2 OHM 1/10 W 5% 1608 R/TP
		R623	0RJ0201D677	2 OHM 1/10 W 5% 1608 R/TP
		R626	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R627	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R628	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R629	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R630	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R631	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R632	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R633	0RJ0101D677	1 OHM 1/10 W 5% 1608 R/TP
		R636	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R637	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R650	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R651	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R653	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R654	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R655	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R658	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R659	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R660	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R661	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R662	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R703	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R705	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R706	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R801	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R802	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R803	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R807	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R808	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R809	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R810	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R811	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R836	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R837	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R838	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R839	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R840	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R841	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R842	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R843	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R844	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
OTHERs				
		X101	6202VDT002D	SX-1SMD SUNNY RADIAL 8.0MHZ
		IC101	381-204B	42PIN(1.78-15.24AMMON)
		TU401	6700NF0019B	TAFM-H103P LGIT NTSC FS PHON
		TU402	6634D00010B	TASA-H301P LG INNOTEK 75 OHM
		RF1	6612J00042G	"UCT-EX-063 UGCOM S/T,17MM,NT"
		RF2	6612J00042G	"UCT-EX-063 UGCOM S/T,17MM,NT"
		IC101	3850TVZ003B	11X11(4-1R) BRAND MICOM EAN
MAIN BOARD(Digital)				
CAPACITOR				
		C1031	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1034	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1037	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1039	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1042	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1045	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1047	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1049	0CH3222K516	2200PF 50V K B 2012 R/TP
		C1136	0CH3105F946	1UF 16V Z F 2012 R/TP
		C1163	0CH3105F946	1UF 16V Z F 2012 R/TP
		C1335	0CH3105F946	1UF 16V Z F 2012 R/TP
		C1336	0CH3105F946	1UF 16V Z F 2012 R/TP
		C846	0CH3105F946	1UF 16V Z F 2012 R/TP
		C858	0CH3105F946	1UF 16V Z F 2012 R/TP
		C859	0CH3105F946	1UF 16V Z F 2012 R/TP
		C1013	0CH6152K406	1500PF 50V J SL 2012 R/TP
		C1018	0CH6152K406	1500PF 50V J SL 2012 R/TP
		C1027	0CH6560K416	56PF 50V J NP0 2012 R/TP
		C1204	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C1207	0CH6561K416	560PF 50V J NP0 2012 R/TP
		C1210	0CH6471K416	470F 50V J NP0 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1219	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1224	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C1226	0CH6220K416	22PF 50V J NP0 2012 R/TP
		C1329	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C1331	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C1722	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C1723	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C556	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C558	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C688	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C750	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C751	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C806	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C807	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C808	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C809	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C816	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C817	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C100	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1000	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1005	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1007	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1008	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1009	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1012	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1017	0CH3822K516	8200PF 2012 50V 10% B(Y5P) R
		C1020	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1021	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1029	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1030	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1032	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1035	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1038	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1041	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1043	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1046	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1048	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C1050	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1055	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1059	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1065	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1068	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1069	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C109	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C110	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1101	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1109	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1110	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1112	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1113	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C931	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C932	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C934	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C935	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C936	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C937	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C938	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C940	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C941	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C943	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C944	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1004	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1025	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1036	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1040	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1053	0CK472CK51A	4700PF 1608 50V 10% R/TP B(Y
		C1056	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1058	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1062	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1063	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1064	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1103	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1105	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1129	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1130	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1139	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1140	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1143	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1144	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1152	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1153	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1157	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C1158	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C1159	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1161	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1162	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1166	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1167	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1181	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1182	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1183	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1185	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1186	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1197	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1198	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1199	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1213	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1216	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C1221	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1316	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1323	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1327	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1332	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C1600	0CK823CK56A	82NF 1608 50V 10% R/TP X7R
		C1621	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1650	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1651	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1652	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1656	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1657	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1658	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C1709	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1730	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1731	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1732	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1733	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1734	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1737	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1738	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1739	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1740	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1741	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1745	0CH3334K946	"0.33UF 50V 80%,-20% F(Y5V) 2"
		C1747	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1748	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1756	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C205	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C207	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C208	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C209	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C210	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C211	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C231	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C300	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C301	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C302	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C303	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C324	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C337	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C346	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C347	0CK476FD67A	47UF 3225 10V 20% X5R R/TP
		C461	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C462	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C509	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C519	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C526	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C540	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C560	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C561	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C656	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C691	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C692	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C693	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C699	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C737	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C757	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C760	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C761	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C762	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C765	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C766	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C767	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C768	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C769	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C770	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C774	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C777	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C778	0CH3334K946	"0.33UF 50V 80%,-20% F(Y5V) 2"
		C801	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C815	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C825	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C826	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C829	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"

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		C830	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C831	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C832	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C833	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C834	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C835	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C836	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C837	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C838	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C839	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C840	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C843	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C844	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C847	0CK472CK51A	4700PF 1608 50V 10% R/TP B/Y
		C1003	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C1011	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C1023	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C1024	0CH6020K116	2PF 50V 0.5 PF NP0 2012 R/TP
		C1193	0CH5100K416	10PF 50V 5% NP0 2012 R/TP
		C344	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C345	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1026	0CC560CK41A	56PF 1608 50V 5% R/TP NP0
		C1044	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C1051	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C1127	0CC200CK41A	20PF 1608 50V 5% R/TP NP0
		C1128	0CC200CK41A	20PF 1608 50V 5% R/TP NP0
		C1205	0CC200CK41A	20PF 1608 50V 5% R/TP NP0
		C1206	0CC200CK41A	20PF 1608 50V 5% R/TP NP0
		C1211	0CC271CK41A	270PF 1608 50V 5% R/TP NP0
		C1222	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C1223	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C1225	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C1227	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C1228	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C1229	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C1324	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C1325	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C1705	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C1706	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C1720	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C1721	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C204	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C239	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C243	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C3129	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C341	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C342	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C612	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C613	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C735	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C736	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C748	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C749	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C845	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C904	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C1001	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1002	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1006	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C1010	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C1014	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1015	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1019	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP

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		C102	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1022	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1028	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C1033	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C105	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1052	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C1054	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1057	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C106	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1060	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1061	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1066	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C1067	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C1138	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1188	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1190	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1194	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1200	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1208	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C1209	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C1218	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD) S
		C1300	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1310	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1318	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1321	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1402	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) S
		C1405	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) S
		C1411	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) S
		C1414	0CE477VF6DC	470UF MV 16V 20% R/TP(SMD) S
		C1417	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1420	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1430	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SM
		C1432	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SM
		C1435	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1438	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1449	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C1452	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SM
		C1601	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1607	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1622	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1630	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1636	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1647	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C1655	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1743	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C1749	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C1752	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C202	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C203	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C206	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C343	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C459	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C486	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C488	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C534	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C537	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C548	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C549	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C550	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C559	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C605	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C609	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM

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		C678	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C684	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C686	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C689	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C694	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C695	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C701	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C704	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C705	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C708	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C709	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C711	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C713	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C715	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C719	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C771	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C775	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C780	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C782	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C784	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C786	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C789	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C800	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C802	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C813	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C814	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C818	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
		C819	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C820	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C822	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C823	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C848	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C849	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C860	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C862	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C863	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C864	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C917	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
		C919	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD) S
		C921	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD) S
		C924	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD) S
		C926	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C927	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C933	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SM
		C939	0CE476SF6DC	47UF MVG 16V 20% SMD R/TP
DIODES				
		D1202	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTEC
		D1203	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTEC
		D1204	0DRSE00038A	SDC15 TVS DIODE ARRAY SEMTEC
		IC1304	0DRSE00048A	RLCAMP0504M SEMTECH R/TP MSO
		IC1406	0DRSE00048A	RLCAMP0504M SEMTECH R/TP MSO
		IC606	0DRSE00048A	RLCAMP0504M SEMTECH R/TP MSO
		IC607	0DRSE00048A	RLCAMP0504M SEMTECH R/TP MSO
		D1200	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		D1201	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		D600	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		D801	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		D802	0DD184009AA	KDS184 TP KEC - 85V - - - 30
		ZD1000	0DZ820009AK	UDZS 8.2B ROHM R/TP SOD323 0

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
IC				
		IC1001	0ICB533100A	CS5331A-KSR 8SOIC TP ADC -
		IC1005	0ICB841500B	CS8415A-CZR 28P TSSOP R/TP 9
		IC1101	0ICTMLG017A	LGDT3502B LG IC 208P/PBGA TR
		IC1102	0ICTM00006A	LGDT3701 LG SYSTEM IC 128P/T
		IC401	0ICTMLG009C	LGDT1102C HD2.3 LG IC SBGA-4
		IC504	0ICTMLG013B	LGDT1901B LG IC SSOP 24P TRA
		IC902	0ICTMLG018B	LGDP4411 IEP2 LG IC 176P TQF
		IC202	0IZZTSZ678A	32LX1D-U FLASH 48P .
		IC203	0IZZTSZ679A	32LX1D-U FLASH 48P ..
		IC209	0IZZTSZ739A	32LX1D-UA FLASH 48P .
		IC210	0IZZTSZ740A	32LX1D-UA FLASH 48P ..
		IC204	0IKE702900G	KIA7029AF SOT-89 TP 2.9V VOL
		IC200	0IMMRHY038C	"HY57V561620CT-H HYNIX 54PIN,"
		IC201	0IMMRHY038C	"HY57V561620CT-H HYNIX 54PIN,"
		IC301	0IMMRMP008A	24LC512 MICRO CHIP TECHNOLOG
		IC500	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC501	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC502	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC503	0IMMRSS041D	K4S641632H-TL75 SAMSUNG ELEC
		IC603	0IMMRSG036A	"M24C02-WMN6T(P),LF SGS-THOMS"
		IC701	0IMMRREB006A	M12L16161A-7T-TI ELITE MEMOR
		IC702	0IMMRREB006A	M12L16161A-7T-TI ELITE MEMOR
		IC1003	0IMCRMN027B	MSP4440G-QA-C13-101WITH SRS
		IC1200	0IMCRMTO03A	MM1108XFFE MITSUMI 8P SOP R/
		IC1201	0IMCRMPO07A	PIC18F242T-I/SO MICRO CHIP T
		IC1204	0IMCRMPO06A	PIC18F1220T-I/SO MICRO CHIP
		IC206	0IMCRCY002A	CY2309SXC-1HT CYPRESS SOIC 1
		IC207	0IMCRCY001A	CY2305SXC-1HT CYPRESS SOIC 8
		IC208	0IMCRXL004A	"XC95288XL-10TQG144C,LF XILI"
		IC300	0IMCRPH026A	PCA9516PW PHILIPS 16P TSSOP
		IC302	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC304	0IMCRXL003B	XC95144XL-10TQG144C XILINX T
		IC801	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV
		IC804	0IMCRSO025A	CXA2181Q SONY 48P QFP TRAY V
		IC1002	0IMO330780B	MC33078D 8/SOIC TP LINEAR +-
		IC100	0IPRPM001B	PPC405GPR-3JB266C IBM E-PBGA
		IC1300	0IPRP00018A	"TSB43DA42AZHCR,LF TEXAS INST"
		IC305	0IPRP00032A	"SIL3512ECTU128,LF SILICON IM"
		IC601	0IPRPS5006A	SIL9021CTU(PB FREE) SILICON
		IC604	0IPRPAD008B	"AD9883AKST(Z)-110,LF ANALOG"
		IC608	0IPRPFA016A	FMS6407MTC20X-NL(PB-FREE) FA
		IC705	0IPRPNE008A	"UPD64011BGM-8ED-A NEC 160,LQ"
		IC706	0IPRPNE008A	"UPD64011BGM-8ED-A NEC 160,LQ"
		IC707	0IPRPFA015A	FMS6410CSX-NL(PB-FREE) FAIRC
		IC708	0IPRPFA015A	FMS6410CSX-NL(PB-FREE) FAIRC
		IC903	0ITH638300C	"THC63LVDM83R(F),LF THINE ELE"
		IC101	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC1103	0IMCRSJ001B	SC1565IST-2.5TR 2.5V 1.5A SE
		IC1104	0IPMGLT008A	LTC1470CS8TRPBF LINEAR TECHN
		IC1108	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC1203	0IPMGNS026A	LM311MX NATIONAL SEMICONDUCT
		IC1303	0IPMGRH001D	"BA15BC0FP-E2 ROHM 3P,TO252 R"
		IC1401	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC1404	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC1405	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC306	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC400	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC600	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC704	0IPMGRH001D	"BA15BC0FP-E2 ROHM 3P,TO252 R"
		IC905	0IMCRSJ001A	SC1565IST-1.8 SEMTECH 3P SOT
		IC1107	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT

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		IC605	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC703	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC1000	0IMCRFA013A	74LCX244MTC FAIRCHILD 20P TS
		IC1004	0ITO741570C	"TC74LCX157FT 16P,TSSOP TP QU"
		IC1106	0IMCRFA013A	74LCX244MTC FAIRCHILD 20P TS
		IC1202	0ISTL00024A	"MC14053BDR2G,LF ON SEMI 16P"
		IC205	0ISTLPH026A	74LVC14APW PHILIPS 14PIN TSS
		IC303	0ISTL00024A	"MC14053BDR2G,LF ON SEMI 16P"
COIL & CORE & & FILTER & INDUCTOR				
		L1401	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1402	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1403	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1411	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		L1413	6140VB0004B	26UH 1UEWPHY 22.5TURN YL-9N
		CH1300	6140VB0021A	944CM-0004=P3 TOKO 4TURN 8PI
		CH1301	6140VB0021A	944CM-0004=P3 TOKO 4TURN 8PI
		L100	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1000	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1005	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1006	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1007	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1008	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1103	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1107	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1111	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1112	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1114	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1201	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1203	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1300	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1301	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1302	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1303	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1405	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1406	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1409	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1410	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L200	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L300	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L302	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L501	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L600	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L607	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L610	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L702	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L703	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L704	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L705	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L707	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L708	6210TCE001G	HH-1M3216-501 CERATEC 3216MM

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L709	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L710	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L715	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L801	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L816	6210TCE001P	HB-1S2012-121JT CERATECH 201
		L901	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L902	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L903	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L904	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L905	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1113	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1115	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L400	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L506	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L714	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L805	6210TCE001P	HB-1S2012-121JT CERATECH 201
		L806	6210TCE001P	HB-1S2012-121JT CERATECH 201
		L808	6210TCE001P	HB-1S2012-121JT CERATECH 201
		L810	6210TCE001P	HB-1S2012-121JT CERATECH 201
		L812	6210TCE001P	HB-1S2012-121JT CERATECH 201
		L814	6210TCE001P	HB-1S2012-121JT CERATECH 201
		FL1200	6200VJT001A	BMK400 TA NIIGATA 50VOLT 1A
		R532	6200J00005T	HB-1S1608-400JT CERATECH R/T
		L1003	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L1004	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L608	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L609	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L701	0LCTA00006E	"LEM2520T390J, 39UH TAIYOYUDE"
		L706	0LCTA00006E	"LEM2520T390J, 39UH TAIYOYUDE"
		L712	0LCTA00006E	"LEM2520T390J, 39UH TAIYOYUDE"
		L717	0LCTA00006E	"LEM2520T390J, 39UH TAIYOYUDE"
		L800	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		L804	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		L1108	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		L1109	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		L711	0LCTA00006E	"LEM2520T390J, 39UH TAIYOYUDE"
		L718	0LCTA00006E	"LEM2520T390J, 39UH TAIYOYUDE"
		L802	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
TRANSISTOR				
		IC904	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		Q1204	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q603	0TR102009AJ	KRC102S NPN SOT-23 TP KEC
		Q604	0TR102009AJ	KRC102S NPN SOT-23 TP KEC
		Q1203	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q1000	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1001	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1002	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1003	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1004	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1101	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1200	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1202	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q703	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q704	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q708	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q800	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q801	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q802	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q803	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q804	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q806	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q807	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q808	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q809	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q812	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q813	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q814	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q815	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q816	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q817	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q821	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q822	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q823	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q824	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q901	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q902	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1005	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1006	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1007	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q600	0TR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q601	0TR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q602	0TR830009BA	BSS83 TP PHILIPS NON N-CHANN
		Q702	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q707	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q805	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q825	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
RESISTORS				
		R100	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1001	0RH1500D622	150 1/10W 5 D.R/TP
		R1003	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R1004	0RH2700D622	270 1/10W 5 D.R/TP
		R1011	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1013	0RH4702D622	47K 1/10W 5 D.R/TP
		R1018	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1019	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1020	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R1021	0RH2700D622	270 1/10W 5 D.R/TP
		R1022	0RH3300D622	330 1/10W 5 D.R/TP
		R1023	0RH1500D622	150 1/10W 5 D.R/TP
		R1026	0RH1202D622	12K 1/10W 5 D.R/TP
		R1027	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R1029	0RH1000D622	100 1/10W 5 D.R/TP
		R1032	0RH1000D622	100 1/10W 5 D.R/TP
		R1051	0RH2200D622	220 1/10W 5 D.R/TP
		R1052	0RH2200D622	220 1/10W 5 D.R/TP
		R1053	0RH2200D622	220 1/10W 5 D.R/TP
		R1057	0RH2200D622	220 1/10W 5 D.R/TP
		R1058	0RH2200D622	220 1/10W 5 D.R/TP
		R1059	0RH2200D622	220 1/10W 5 D.R/TP
		R1060	0RH2200D622	220 1/10W 5 D.R/TP
		R1070	0RH0272D622	27 1/10W 5 D.R/TP
		R1071	0RH0272D622	27 1/10W 5 D.R/TP
		R1076	0RH4703D622	470K 1/10W 5 D.R/TP
		R1077	0RH4703D622	470K 1/10W 5 D.R/TP
		R1078	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R1079	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R108	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R109	0RH4701D622	4.7K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1113	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1114	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1140	0RH0332D622	33 1/10W 5 D.R/TP
		R1141	0RH0332D622	33 1/10W 5 D.R/TP
		R1144	0RH0332D622	33 1/10W 5 D.R/TP
		R1145	0RH0332D622	33 1/10W 5 D.R/TP
		R1146	0RH0332D622	33 1/10W 5 D.R/TP
		R1148	0RH0332D622	33 1/10W 5 D.R/TP
		R1155	0RH0332D622	33 1/10W 5 D.R/TP
		R1168	0RH0332D622	33 1/10W 5 D.R/TP
		R1194	0RH3300D622	330 1/10W 5 D.R/TP
		R1195	0RH3300D622	330 1/10W 5 D.R/TP
		R1200	0RH0152D622	15 1/10W 5 D.R/TP
		R1203	0RH1003D622	100K 1/10W 5 D.R/TP
		R1205	0RH5600D622	560 1/10W 5 D.R/TP
		R1212	0RH3303D622	330K 1/10W 5 D.R/TP
		R1213	0RH2200D622	220 1/10W 5 D.R/TP
		R1215	0RH4702D622	47K 1/10W 5 D.R/TP
		R1222	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1224	0RH4702D622	47K 1/10W 5 D.R/TP
		R1225	0RH2202D622	22K 1/10W 5 D.R/TP
		R1227	0RH8200D622	820 1/10W 5 D.R/TP
		R1228	0RH0562D622	56 1/10W 5 D.R/TP
		R1229	0RH5600D622	560 1/10W 5 D.R/TP
		R1230	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1234	0RH0152D622	15 1/10W 5 D.R/TP
		R1236	0RH4700D622	470 1/10W 5 D.R/TP
		R1237	0RH2200D622	220 1/10W 5 D.R/TP
		R1238	0RH4702D622	47K 1/10W 5 D.R/TP
		R1242	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1243	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1245	0RH2200D622	220 1/10W 5 D.R/TP
		R1247	0RH1502D622	15K 1/10W 5 D.R/TP
		R1249	0RH0332D622	33 1/10W 5 D.R/TP
		R1250	0RH0332D622	33 1/10W 5 D.R/TP
		R1316	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1317	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1318	0RH0562D622	56 1/10W 5 D.R/TP
		R1319	0RH0562D622	56 1/10W 5 D.R/TP
		R132	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1320	0RH0562D622	56 1/10W 5 D.R/TP
		R1321	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R1322	0RH0562D622	56 1/10W 5 D.R/TP
		R1323	0RH0562D622	56 1/10W 5 D.R/TP
		R1324	0RH0562D622	56 1/10W 5 D.R/TP
		R1325	0RH0562D622	56 1/10W 5 D.R/TP
		R1326	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R1327	0RH0562D622	56 1/10W 5 D.R/TP
		R1328	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1330	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1332	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1708	0RH3300D622	330 1/10W 5 D.R/TP
		R1712	0RH1000D622	100 1/10W 5 D.R/TP
		R1720	0RH1000D622	100 1/10W 5 D.R/TP
		R1801	0RH3300D622	330 1/10W 5 D.R/TP
		R1802	0RH3300D622	330 1/10W 5 D.R/TP
		R1803	0RH3300D622	330 1/10W 5 D.R/TP
		R1804	0RH3300D622	330 1/10W 5 D.R/TP
		R1805	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R1812	0RH1000D622	100 1/10W 5 D.R/TP
		R1816	0RH1003D622	100K 1/10W 5 D.R/TP
		R1819	0RH4701D622	4.7K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R210	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R212	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R213	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R214	0RH3300D622	330 1/10W 5 D.R/TP
		R216	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R242	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R272	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R273	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R275	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R304	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R305	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R306	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R307	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R3119	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R3120	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R3121	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R3122	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R314	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R315	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R353	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R354	0RH1000D622	100 1/10W 5 D.R/TP
		R355	0RH1000D622	100 1/10W 5 D.R/TP
		R402	0RH0272D622	27 1/10W 5 D.R/TP
		R423	0RH0752D622	75 1/10W 5 D.R/TP
		R427	0RH0752D622	75 1/10W 5 D.R/TP
		R428	0RH0752D622	75 1/10W 5 D.R/TP
		R429	0RH0752D622	75 1/10W 5 D.R/TP
		R430	0RH0752D622	75 1/10W 5 D.R/TP
		R431	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R437	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R440	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R441	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R451	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R518	0RH6202D622	62K 1/10W 5 TA
		R525	0RH1000D622	100 1/10W 5 D.R/TP
		R528	0RH1000D622	100 1/10W 5 D.R/TP
		R535	0RH0682D622	68 1/10W 5 D.R/TP
		R536	0RH0682D622	68 1/10W 5 D.R/TP
		R537	0RH0682D622	68 1/10W 5 D.R/TP
		R544	0RH4703D622	470K 1/10W 5 D.R/TP
		R545	0RH4703D622	470K 1/10W 5 D.R/TP
		R546	0RH4703D622	470K 1/10W 5 D.R/TP
		R602	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R611	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R623	0RH0332D622	33 1/10W 5 D.R/TP
		R624	0RH0332D622	33 1/10W 5 D.R/TP
		R625	0RH0332D622	33 1/10W 5 D.R/TP
		R654	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R655	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R656	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R683	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R685	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R688	0RH3301D622	3.3K 1/10W 5 D.R/TP
		R718	0RH2200D622	220 1/10W 5 D.R/TP
		R720	0RH3600D622	CHIP 360-J 1/10 W
		R723	0RH1000D622	100 1/10W 5 D.R/TP
		R731	0RH0682D622	68 1/10W 5 D.R/TP
		R748	0RH1500D622	150 1/10W 5 D.R/TP
		R751	0RH1500D622	150 1/10W 5 D.R/TP
		R752	0RH0682D622	68 1/10W 5 D.R/TP
		R768	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R771	0RH2200D622	220 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R772	0RH3600D622	CHIP 360-J 1/10 W
		R775	0RH1000D622	100 1/10W 5 D.R/TP
		R800	0RH0752D622	75 1/10W 5 D.R/TP
		R804	0RH0752D622	75 1/10W 5 D.R/TP
		R806	0RH0752D622	75 1/10W 5 D.R/TP
		R807	0RH3300D622	330 1/10W 5 D.R/TP
		R809	0RH2200D622	220 1/10W 5 D.R/TP
		R811	0RH3300D622	330 1/10W 5 D.R/TP
		R812	0RH2700D622	270 1/10W 5 D.R/TP
		R815	0RH2200D622	220 1/10W 5 D.R/TP
		R816	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R817	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R818	0RH2200D622	220 1/10W 5 D.R/TP
		R819	0RH2200D622	220 1/10W 5 D.R/TP
		R821	0RH4702D622	47K 1/10W 5 D.R/TP
		R822	0RH2200D622	220 1/10W 5 D.R/TP
		R823	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R824	0RH2200D622	220 1/10W 5 D.R/TP
		R825	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R826	0RH2200D622	220 1/10W 5 D.R/TP
		R828	0RH4702D622	47K 1/10W 5 D.R/TP
		R829	0RH0752D622	75 1/10W 5 D.R/TP
		R830	0RH2200D622	220 1/10W 5 D.R/TP
		R832	0RH4703D622	470K 1/10W 5 D.R/TP
		R833	0RH1000D622	100 1/10W 5 D.R/TP
		R834	0RH1000D622	100 1/10W 5 D.R/TP
		R835	0RH0682D622	68 1/10W 5 D.R/TP
		R836	0RH3300D622	330 1/10W 5 D.R/TP
		R837	0RH3300D622	330 1/10W 5 D.R/TP
		R838	0RH0752D622	75 1/10W 5 D.R/TP
		R839	0RH0752D622	75 1/10W 5 D.R/TP
		R840	0RH0752D622	75 1/10W 5 D.R/TP
		R842	0RH3300D622	330 1/10W 5 D.R/TP
		R844	0RH3300D622	330 1/10W 5 D.R/TP
		R854	0RH1000D622	100 1/10W 5 D.R/TP
		R855	0RH1000D622	100 1/10W 5 D.R/TP
		R863	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R864	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R869	0RH4700D622	470 1/10W 5 D.R/TP
		R871	0RH0752D622	75 1/10W 5 D.R/TP
		R873	0RH0752D622	75 1/10W 5 D.R/TP
		R880	0RH1502D622	15K 1/10W 5 D.R/TP
		R881	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R883	0RH1502D622	15K 1/10W 5 D.R/TP
		R884	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R886	0RH1502D622	15K 1/10W 5 D.R/TP
		R887	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R952	0RH4701D622	4.7K 1/10W 5 D.R/TP
		AR100	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR101	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR102	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR103	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR104	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR105	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR106	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR107	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR108	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR109	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR110	0RHZTCZ001F	RCA SMART 4.7KOHM 1/16 W 5%
		AR1101	0RHZTCZ001D	RCA SMART 220OHM 1/16 W 5% 32
		AR1102	0RHZTCZ001D	RCA SMART 220OHM 1/16 W 5% 32
		AR1103	0RHZTCZ001D	RCA SMART 220OHM 1/16 W 5% 32

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3118	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R319	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R320	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R335	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R343	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R344	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R345	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R350	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R351	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R352	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R403	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R404	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R405	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R406	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R407	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R408	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R409	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R410	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R411	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R412	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R432	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R433	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R434	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R435	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R436	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R439	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R442	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R443	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R444	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R445	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R446	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R447	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R500	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R501	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R511	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R512	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R513	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R514	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R521	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R548	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R600	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R604	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R609	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R628	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R629	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R630	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R647	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R648	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R650	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R660	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R661	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R665	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R667	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R684	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R687	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R689	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R694	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R695	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R696	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R697	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R715	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R716	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R717	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R767	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R769	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R801	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R802	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R803	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R810	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R820	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R827	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R831	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R856	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R859	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R898	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R905	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R911	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R912	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R913	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R914	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R915	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R916	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R917	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R918	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R919	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R920	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R921	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R922	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R923	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R924	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R925	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R929	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R930	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R931	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R932	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R933	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R934	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R937	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R938	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R939	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		L807	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L809	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L811	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L813	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L815	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1012	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1015	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R1016	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R1017	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R102	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1028	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R103	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1035	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1036	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1037	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1038	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R1039	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R104	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1049	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R105	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1054	0RJ1201D677	1200 OHM 1/10 W 5% 1608 R/TP
		R1055	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1056	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R106	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1061	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R1062	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1069	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R107	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1080	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R1081	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R1083	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R110	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1105	0RJ5101D677	5.1K OHM 1/10 W 5% 1608 R/TP
		R1109	0RJ3002D677	30000 OHM 1/10 W 5% 1608 R/T
		R111	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1110	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1111	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1112	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1115	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1117	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1118	0RJ1004D677	1000000 OHM 1/10 W 5% 1608 R
		R1119	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R112	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1120	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1121	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1129	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R113	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1130	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1131	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1132	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1133	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1135	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1136	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1137	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1138	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1139	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R114	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1142	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1143	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1147	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1149	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R115	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1150	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R1151	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1152	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1153	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1154	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R1156	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1161	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1162	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1163	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1164	0RJ1003D677	100K OHM 1/10 W 5% 1608 R/TP
		R1166	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1167	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R117	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1175	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1176	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1177	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1178	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1179	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R118	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1181	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1186	0RJ3001D677	3K OHM 1/10 W 5% 1608 R/TP
		R1187	0RJ3001D677	3K OHM 1/10 W 5% 1608 R/TP
		R119	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1190	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1191	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1192	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1193	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1196	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1197	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R1198	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R1199	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R120	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1202	0RJ8252D477	82.5K OHM 1/10 W 1% 1608 R/T
		R121	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1217	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1218	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R122	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1220	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1223	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R123	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R124	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1241	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1244	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R125	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1251	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R1256	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1257	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1258	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R126	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R127	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R128	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R130	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1302	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1303	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1304	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1306	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1307	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R1308	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1309	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R131	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1310	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1311	0RJ6341D477	6.34K OHM 1/10 W 1% 1608 R/T
		R133	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1331	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R134	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R135	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R136	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R137	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R138	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R139	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R140	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1401	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1402	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R1403	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R1407	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R141	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R142	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R144	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R148	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R149	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R150	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R151	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R152	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R153	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R154	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R156	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R1700	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R1703	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R1704	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R1713	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1721	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1817	0RJ1003D677	100K OHM 1/10 W 5% 1608 R/TP
		R1818	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1820	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R1821	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1822	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R200	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R201	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R202	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R203	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R204	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R205	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R206	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R207	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R208	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R209	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R211	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R217	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R218	0RJ1602D677	16K OHM 1/10 W 5% 1608 R/TP
		R219	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R230	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R231	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R232	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R234	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R235	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R236	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R237	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R238	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R239	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R240	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R243	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R244	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R245	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R246	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R247	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R248	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R249	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R250	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R252	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R253	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R254	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R255	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R256	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R257	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R258	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R259	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R263	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R264	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R265	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R266	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R267	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R269	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R270	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R271	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R274	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R276	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R277	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R283	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R300	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R301	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R302	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R303	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R308	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R309	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R3101	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R3102	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R3103	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R3108	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3109	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3112	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3113	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3114	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3115	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3117	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R3123	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R3124	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R3125	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R3126	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R3127	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3128	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R3129	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R316	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R317	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R318	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R321	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R323	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R324	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R325	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R327	0RJ1005D677	10M OHM 1/10 W 5% 1608 R/TP
		R328	0RJ1001D477	1K OHM 1/10 W 1% 1608 R/TP
		R329	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R334	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R336	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R337	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R338	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R339	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R340	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R341	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R342	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R346	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R347	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R348	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R349	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R356	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R413	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R414	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R415	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R416	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R417	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R420	0RJ1800D677	180 OHM 1/10 W 5% 1608 R/TP
		R421	0RJ1800D677	180 OHM 1/10 W 5% 1608 R/TP
		R424	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R425	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R426	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R448	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R449	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R522	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R523	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R527	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R529	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R530	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R531	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R533	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R547	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R606	0RJ1004D677	1000000 OHM 1/10 W 5% 1608 R
		R614	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R615	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R616	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R619	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R620	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R621	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R622	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R626	0RJ1800D677	180 OHM 1/10 W 5% 1608 R/TP
		R635	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R636	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R637	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R639	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R640	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R641	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R642	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R643	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R644	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R645	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R646	0RJ0331D677	3.3 OHM 1/10 W 5% 1608 R/TP
		R663	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R664	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R669	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R670	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R671	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R672	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R673	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R674	0RJ2701D677	2.7K OHM 1/10 W 5% 1608 R/TP
		R675	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R679	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R680	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R681	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R690	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R700	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R702	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R703	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R704	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R705	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R706	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R707	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R708	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R709	0RJ3600D477	360 OHM 1/10 W 1% 1608 R/TP
		R712	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R713	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R714	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R724	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R732	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R733	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R734	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R735	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R736	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R737	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R738	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R739	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP

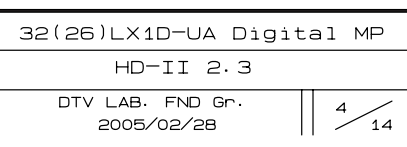
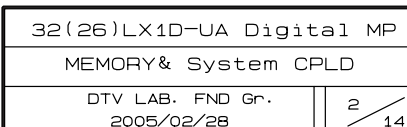
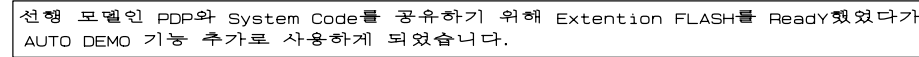
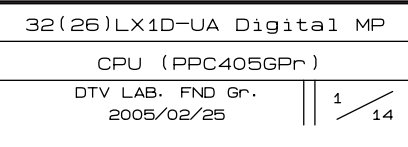
DATE: 2005. 04. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R740	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R741	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R742	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R743	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R744	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R745	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R746	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R757	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R758	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R759	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R760	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R761	0RJ3600D477	360 OHM 1/10 W 1% 1608 R/TP
		R764	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R765	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R766	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R774	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R776	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R778	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R784	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R785	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R786	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R787	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R788	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R789	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R790	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R791	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R792	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R793	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R794	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R795	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R796	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R797	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R798	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R813	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R814	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R848	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R849	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R850	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R851	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R852	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R853	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R857	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R858	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R860	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R861	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R862	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R865	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R866	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R867	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R868	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R870	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R872	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R874	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R875	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R876	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R877	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R878	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R879	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R882	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R885	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R888	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R900	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R901	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R902	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R903	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R904	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R906	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R907	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R908	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R909	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R910	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R928	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R935	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R936	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R940	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
OTHERs				
		IC202	3850TAZ028C	LM295B BRAND UL/CSA LGMNT MI
		IC203	3850TAZ028C	LM295B BRAND UL/CSA LGMNT MI
		IC209	3850TAZ028C	LM295B BRAND UL/CSA LGMNT MI
		IC210	3850TAZ028C	LM295B BRAND UL/CSA LGMNT MI
		DL1101	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		DL1102	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		DL1401	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		DL1402	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		DL1403	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		DL200	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		DL201	0DL233309AC	SAM2333 TP KWANG GREEN/RED G
		IC1301	6204B47985M	SCO-103 SUNNY 13.5MHZ +/- 30
		X1102	6204B47985K	BMS-873R BUBANG 25MHZ +/- 50
		X200	6204B47985L	SCO-103 SUNNY 33.33HZ +/- 30
		X500	6204B60001B	VCXO BUBANG 27MHZ +/- 100 PP
		X801	6212AB3004D	CSALF2M69G4ZF01-A3 MURATA 2.
		X1000	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-3
		X1101	6212AB2015F	HC-49/SM BUBANG 14MHZ +/- 30
		X1200	6212AB2015E	HC-49/SM BUBANG 10.0MHZ +/-
		X1201	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/- 3
		X1300	6212AB2806A	SX-1 SUNNY 24.576MHZ +/- 50
		X300	6212AB2015C	HC-49/SM4H BUBANG 25MHZ +/-
		X600	6202TST001H	SX-1 SUNNY 27MHZ +/- 30 PPM
		X700	6212AB2806A	SX-1 SUNNY 24.576MHZ +/- 50
		X701	6212AB2806A	SX-1 SUNNY 24.576MHZ +/- 50
		X800	6212AB2015A	HC-49/SM4H BUBANG 4MHZ +/- 3
CONTROL BOARD				
		SW1101	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1102	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1103	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1104	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1105	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1106	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1107	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW1108	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		R1101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1102	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1105	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1106	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		ZD1201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

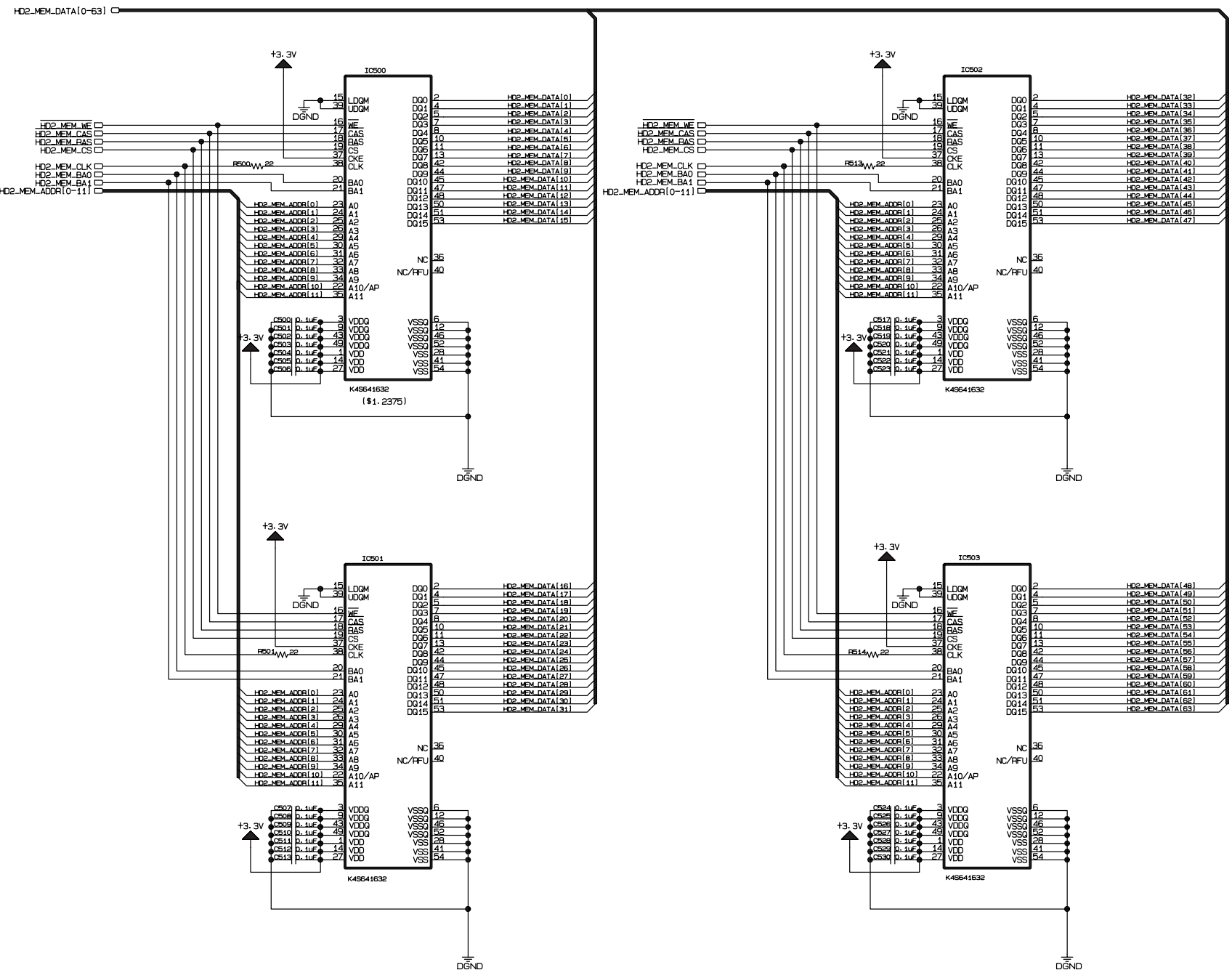
DATE: 2005. 04. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD1204	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
TUNER BOARD				
		C2004	0CH2103K666	0.01UF 50V 20% X7R 2012 R/TP
		C2007	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2009	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2013	0CH2334F566	0.33UF 16V 10% X7R 2012 R/TP
		C2014	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2017	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2018	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2019	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2023	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2024	0CH2103K666	0.01UF 50V 20% X7R 2012 R/TP
		C2025	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2027	0CH2103K666	0.01UF 50V 20% X7R 2012 R/TP
		C2029	0CH3224K946	0.22UF 50V Z F 2012 R/TP
		C2041	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L2003	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L2004	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L2005	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L2006	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		R2001	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2002	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2003	0RH0102D622	10 1/10W 5 D.R/TP
		R2011	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2012	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2014	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2016	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2017	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2018	0RH0682D622	68 1/10W 5 D.R/TP
		F2001	6200QL3002E	X9650M EPCOS ST 44MHZ 5PIN
		P2001	6602T25008L	SMW250-12 YEONHO 12P 2.5MM L
		P2002	6602T25008F	SMW250-07 YEONHO 2.5MM LOCK
		P2003	6602T25008C	SMW250-04 YEONHO 4P 2.5MM LO
		TU1501	6700AN0002A	TDVS-H701P LGIT ATSC/NTSC DI
		TU2002	6700NC0001B	TAEU-H018P LGIT NTSC OOB CAB
		C2003	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C2005	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C2008	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C2010	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C2011	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C2012	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C2015	0CE107SF6DC	100UF MVG 16V 20% SMD R/TP
		C2022	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) SM
		C2026	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SM
		C2028	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C2030	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C2031	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C2032	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C2033	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C2034	0CK102CK56A	1000PF 1608 50V 0.1 R/TP X7R
		C2035	0CE226VF6DC	22UF MV 16V 20% R/TP(SMD) SM
		C2036	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C2054	0CE106WH6DC	10UF MVK 25V 20% R/TP(SMD) S
		C2055	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		IC2001	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK,"
		IC2002	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE R"
		IC2003	0IMCRTI035A	"TL592B-8DR,LF TEXAS INSTRUM"

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC2004	0IMCRFA004A	KA2904DTF FAIRCHILD 8SOP R/T
		IC2006	0IPRP00538A	FSA1156P6X-NL FAIRCHILD 6P/M
		L2001	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L2002	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L2007	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		L2008	0LC2000005K	"FI-D2012-223, 22UH CERATECH"
		Q2001	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R2004	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R2006	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R2007	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R2010	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R2020	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R2021	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R2022	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R2023	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R2024	0RJ0512D677	51 OHM 1/10 W 5% 1608 R/TP
		R2025	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R2040	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R2041	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R2042	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		TU1501	6852TAZ012T	"COAXIAL, LINK R/A-S/T UL 1365"
		TU2002	6852TAZ012M	"COAXIAL, R/A-S/T UL 1365 AWG"
LIGHT & IR BOARD				
		C3102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3103	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C3104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L3101	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L3102	0RH1000D622	100 1/10W 5 D.R/TP
		L3103	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3217	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	0RH2200D622	220 1/10W 5 D.R/TP
		R3102	0RH2200D622	220 1/10W 5 D.R/TP
		R3103	0RH2200D622	220 1/10W 5 D.R/TP
		R3104	0RH2200D622	220 1/10W 5 D.R/TP
		R3105	0RH2200D622	220 1/10W 5 D.R/TP
		R3106	0RH2200D622	220 1/10W 5 D.R/TP
		R3107	0RH2200D622	220 1/10W 5 D.R/TP
		R3108	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3109	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3110	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3112	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3113	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3114	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3116	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3117	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3118	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3119	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3120	0RH2001D622	2.0K 1/10W 5 D.R/TP
		R3121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

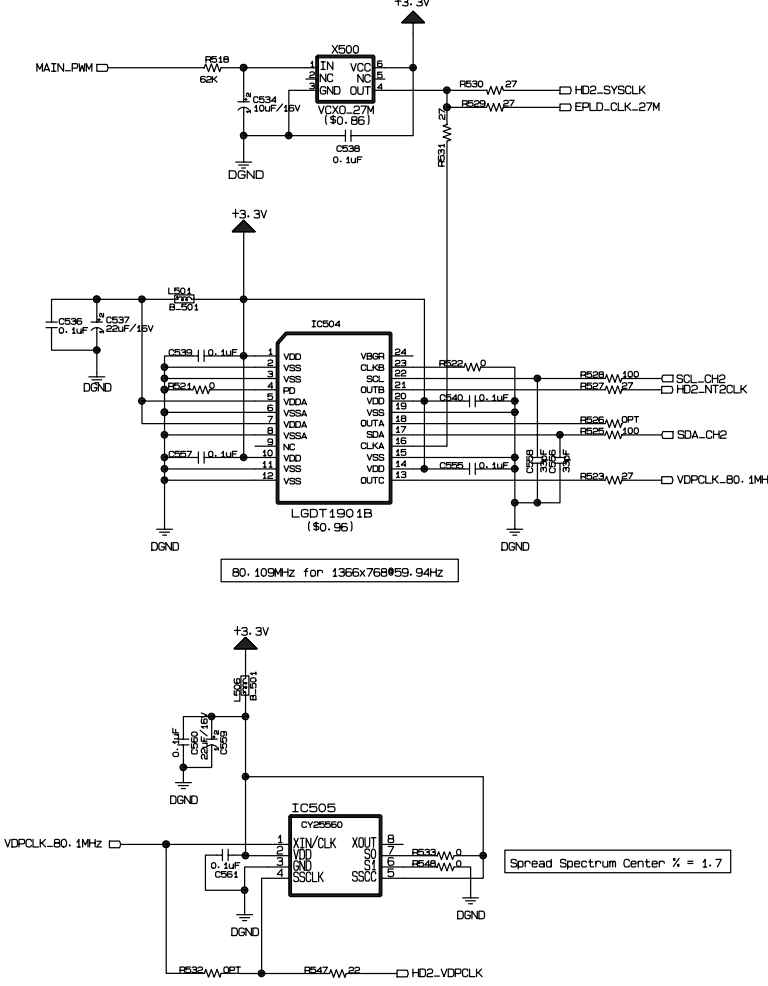
DATE: 2005. 04. 20.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3125	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3126	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3127	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3128	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3129	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3130	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3131	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3132	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3133	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3134	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3135	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3136	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3137	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3138	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R3139	0RH5600D622	560 1/10W 5 D.R/TP
		R3141	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		LED3232	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		P3000	6602T20009B	SMAW200-03 YEONHO 2.0MM LOCK
		P3102	6602T20009F	SMAW200-07 YEONHO 2.0MM LOCK
		P3103	6602T20009L	SMAW200-12 YEONHO 2.0MM LOCK
		RPE3101	6726TV0001A	TSOP4838SO1 VISHAY 38.0KHZ L
		C3101	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		C3106	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C3107	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SM
		LED801	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED802	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED803	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED804	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED805	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED806	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED807	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
SIDE A/V BOARD				
		C2101	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C2102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2104	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C2107	0CH6331K416	330PF 50V J NP0 2012 R/TP
		L2101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2102	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2105	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2103	0RH0752D622	75 1/10W 5 D.R/TP
		R2104	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R2105	0RH0752D622	75 1/10W 5 D.R/TP
		R2106	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R2107	0RH4703D622	470K 1/10W 5 D.R/TP
		R2109	0RH4703D622	470K 1/10W 5 D.R/TP
		R2111	0RH0752D622	75 1/10W 5 D.R/TP
		R2113	0RH0752D622	75 1/10W 5 D.R/TP
		R2115	0RH0752D622	75 1/10W 5 D.R/TP
		R2116	0RH0472D622	47 1/10W 5 D.R/TP
		R2117	0RH0752D622	75 1/10W 5 D.R/TP
		R2118	0RH0752D622	75 1/10W 5 D.R/TP
		R2123	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R2124	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R2125	0RH2200D622	220 1/10W 5 D.R/TP
		R2126	0RH2200D622	220 1/10W 5 D.R/TP
		R2127	0RH2200D622	220 1/10W 5 D.R/TP



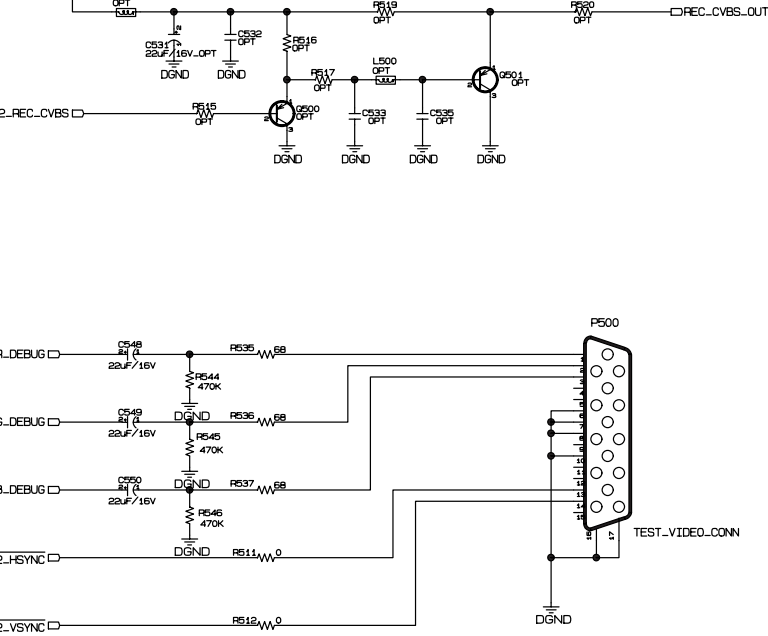
HD-2 Memory
(32MB)



HD-2 PLL Circuit

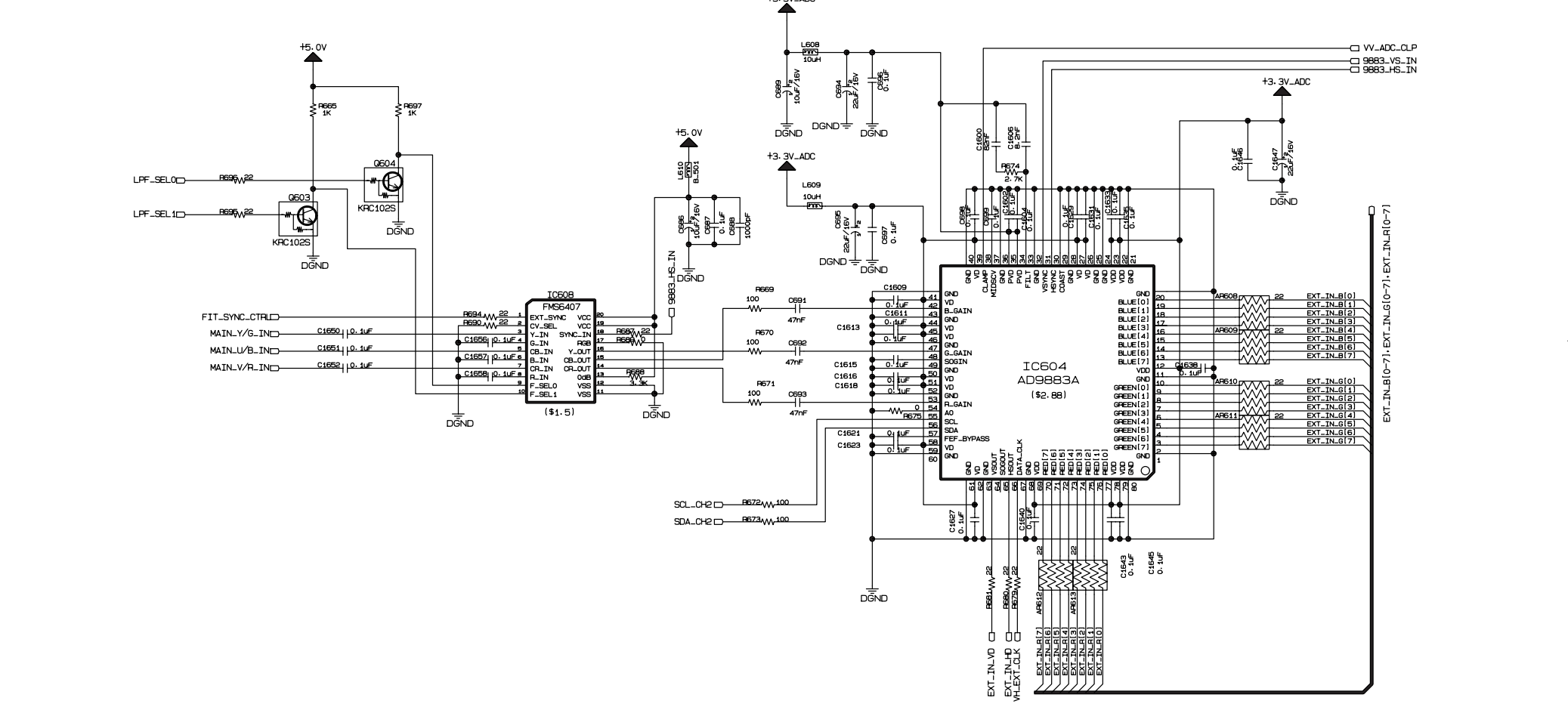
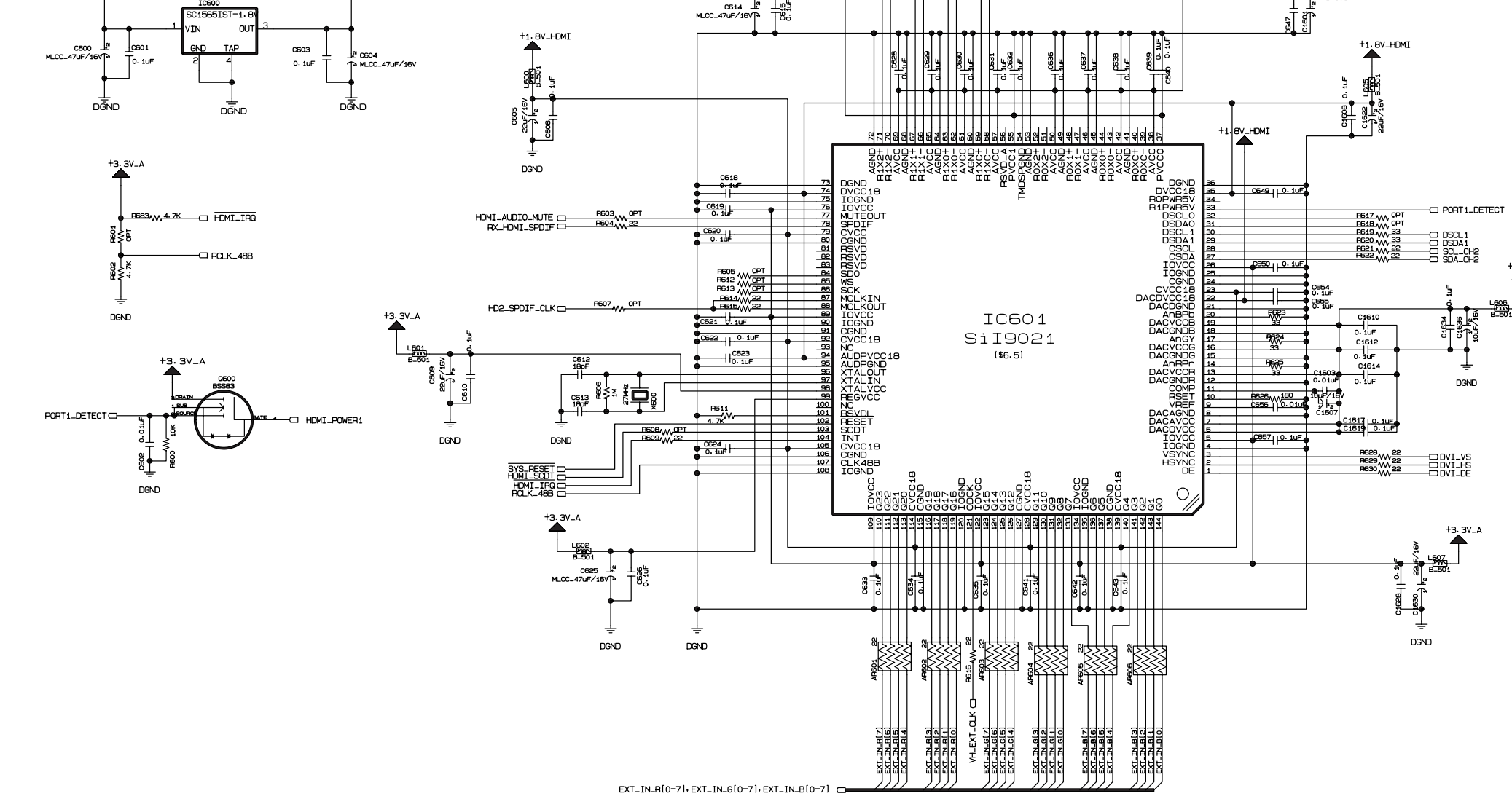


VCR_REC_OUTPUT



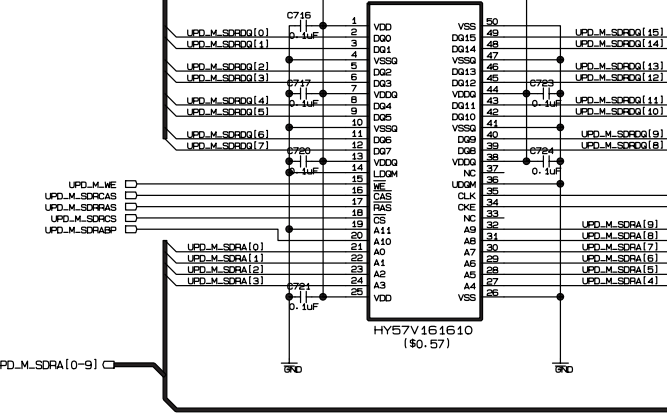
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HD2 SDRAM/DPLL/TEST_RGB
DTV LAB. PND GP.
2005/02/28 5/14

1.5V Regulator for HDMI

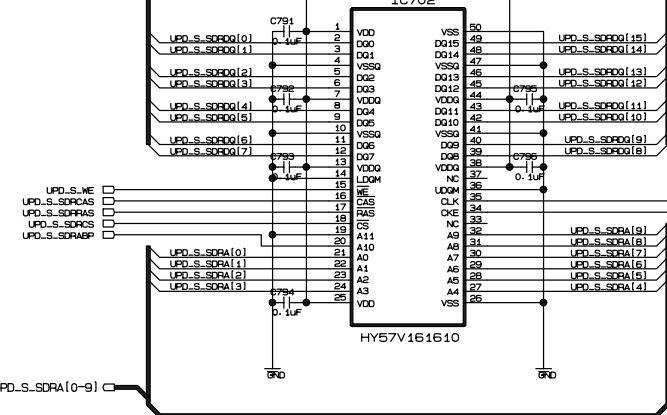


321261LK1D-UA Digital MP
HDMI & ADC
DTV LAB. PND GP.
2005/02/28 6/14

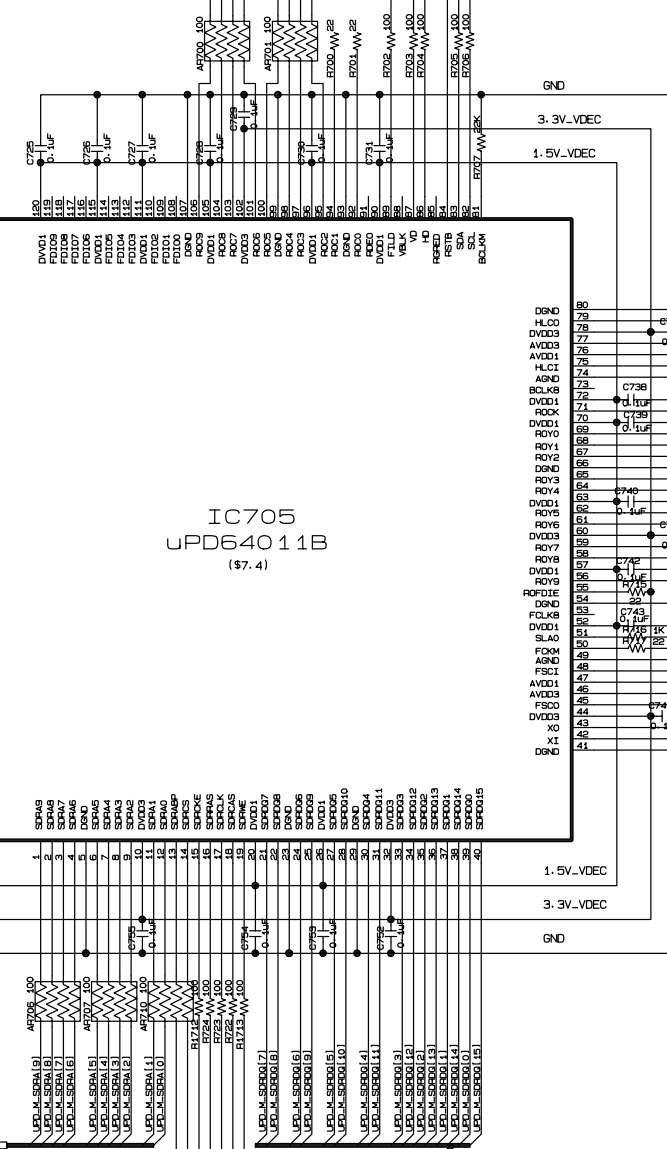
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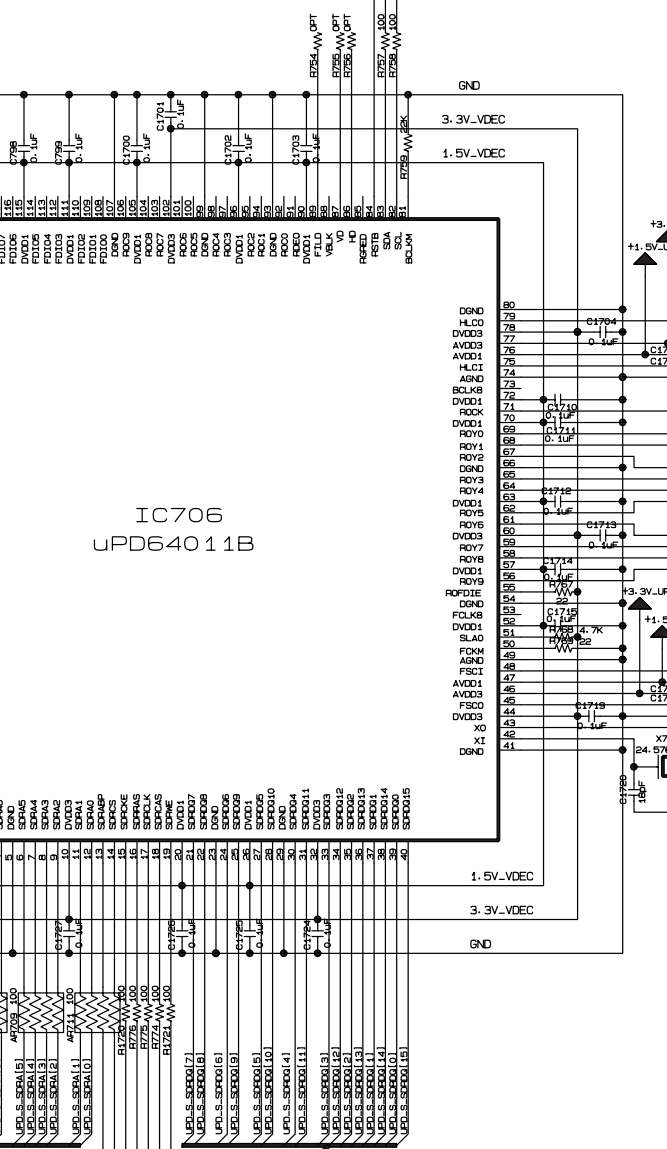
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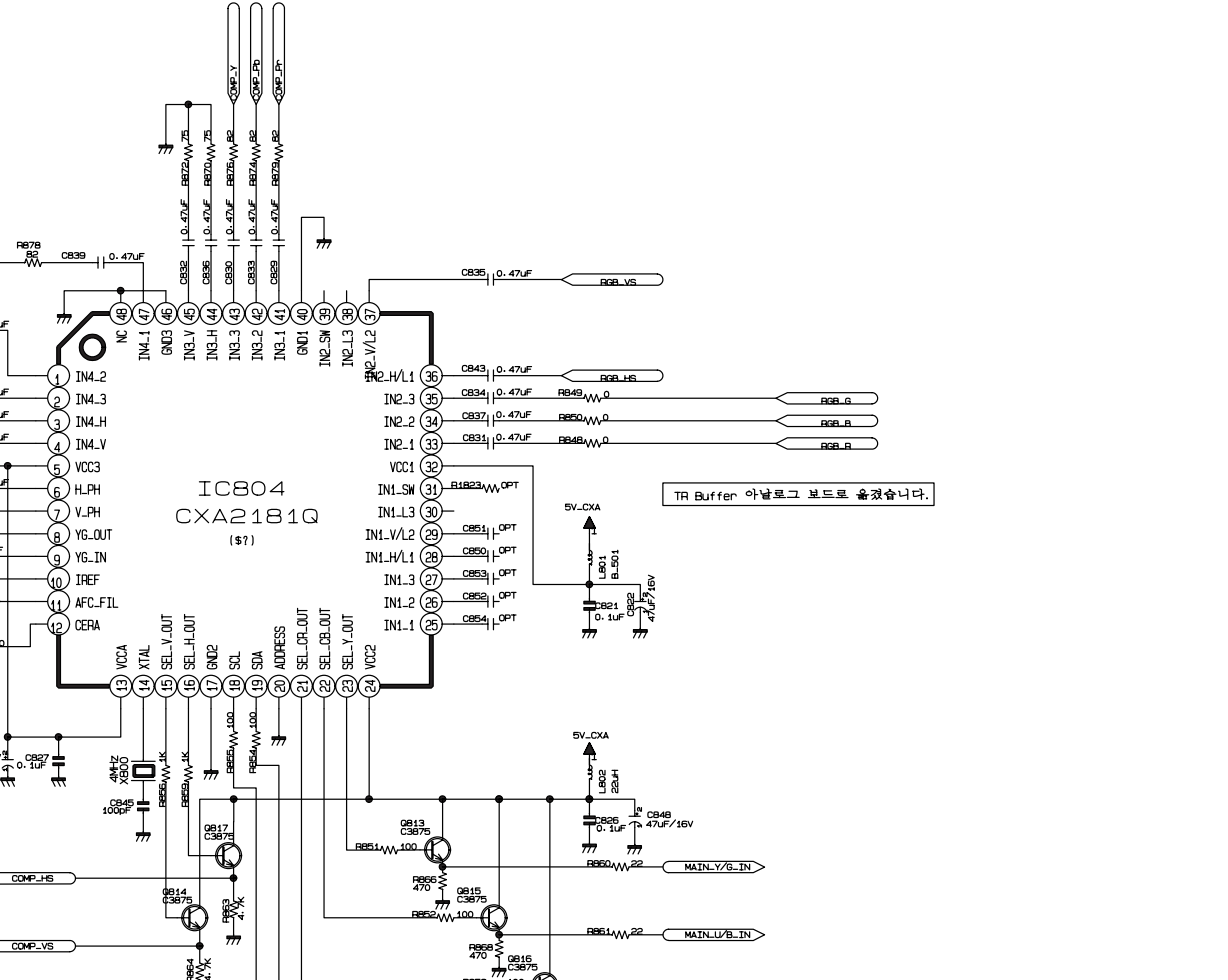
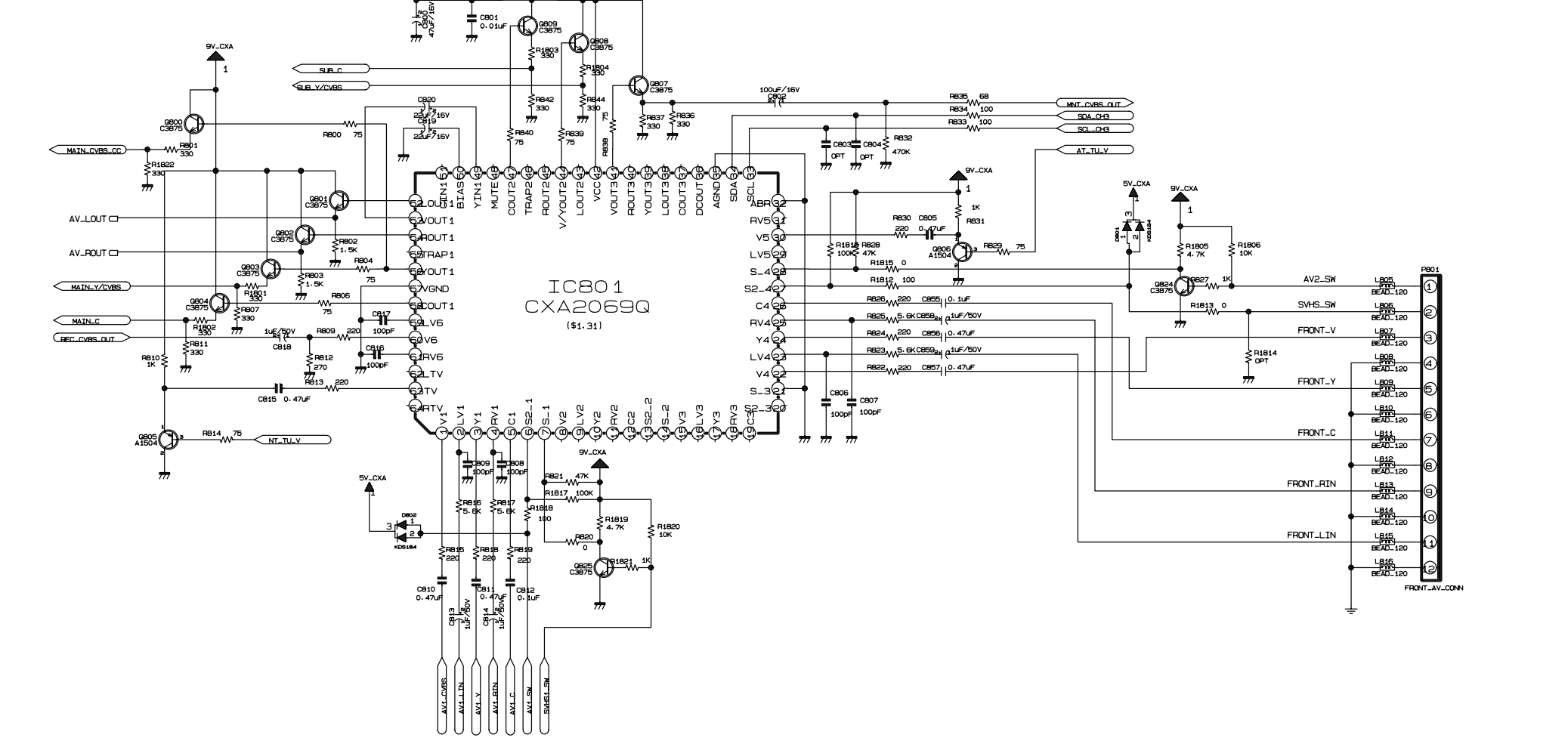
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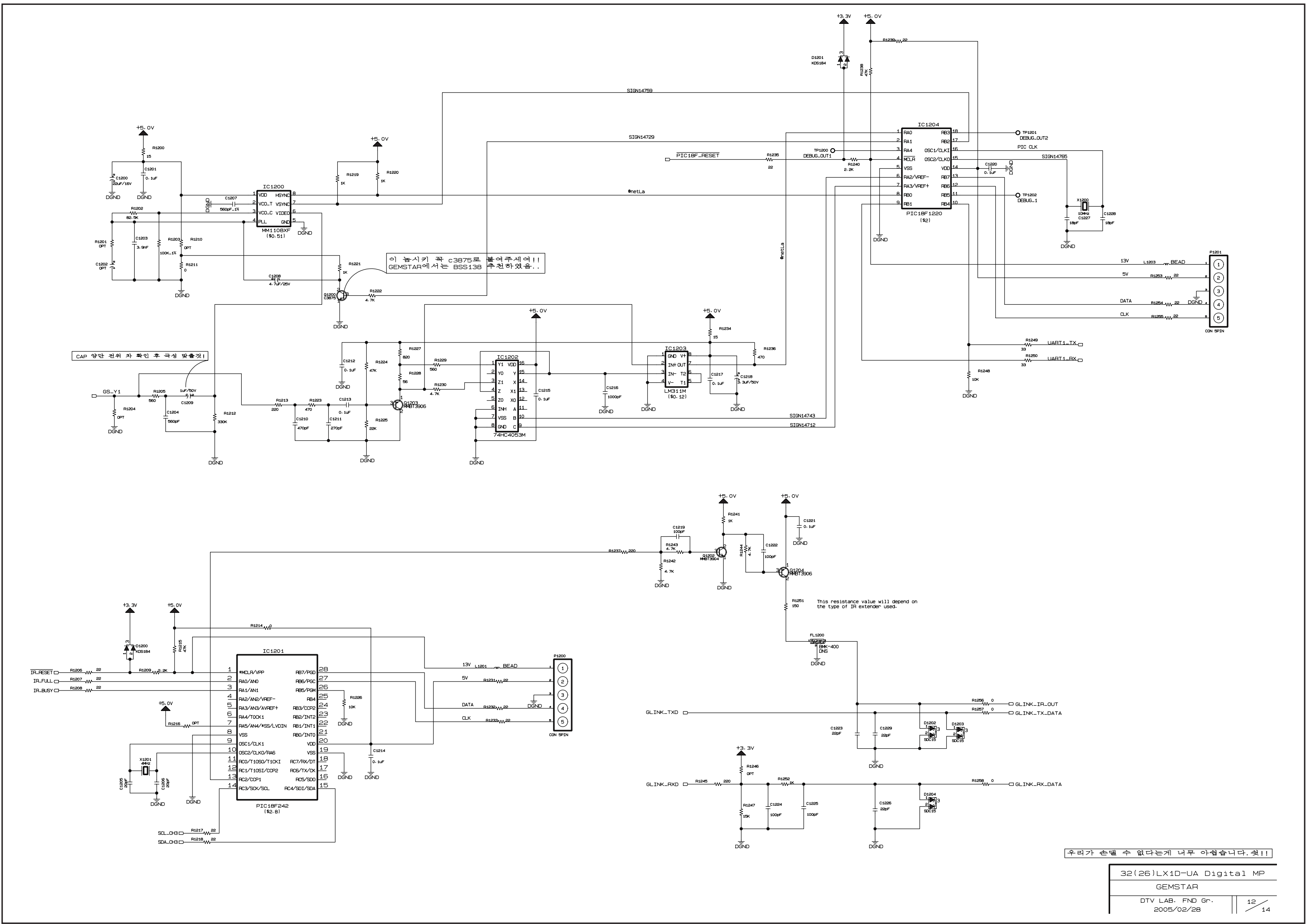
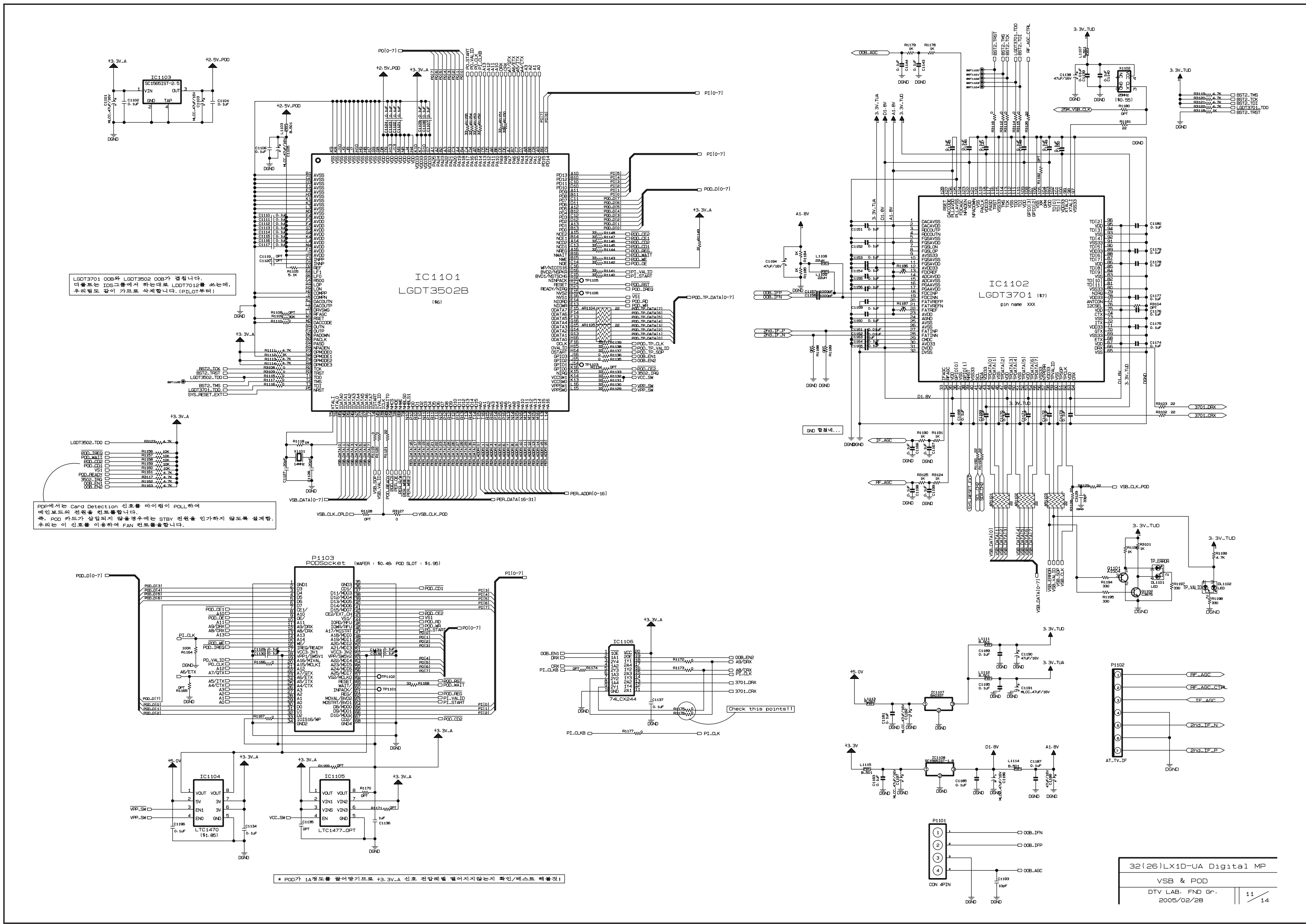
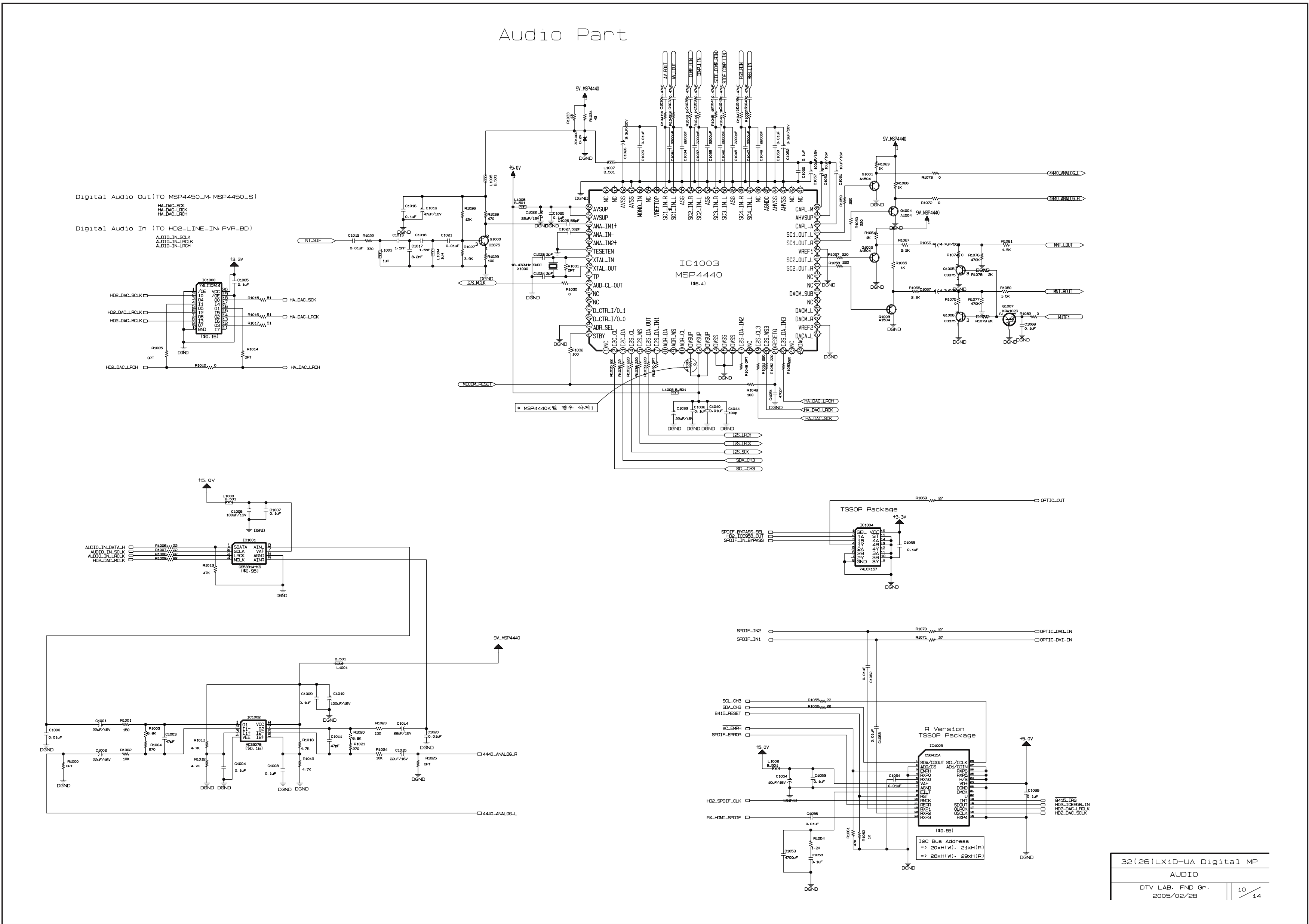
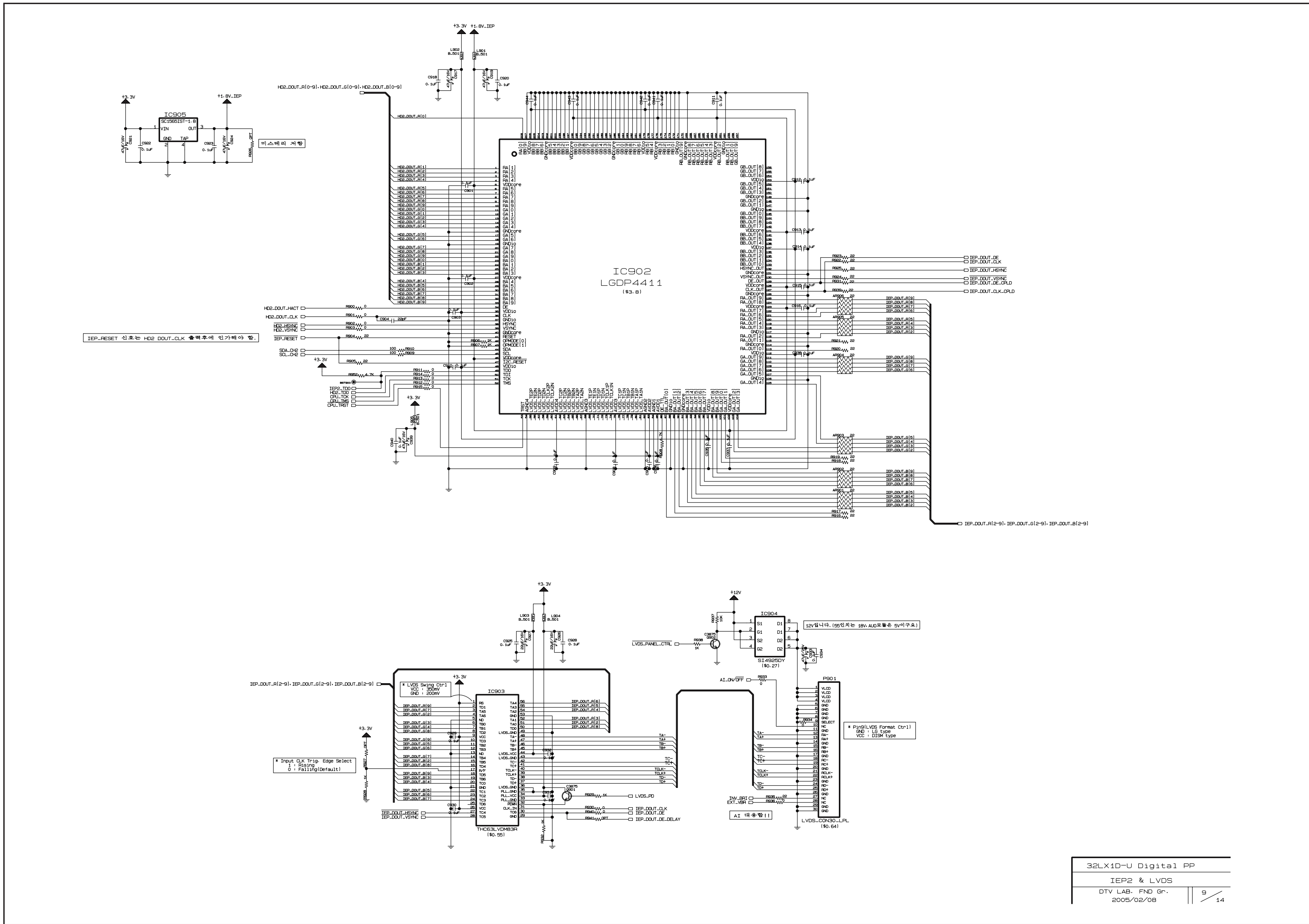
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321261LK1D-UA Digital MP
MAIN/SUB VIDEO DECODER
DTV LAB. PND GP.
2005/02/28 7/14



321261LK1D-UA Digital MP
COMPONENT & AV SWITCH
DTV LAB. PND GP.
2005/02/28 8/14





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